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1937 CATALOG

Central Coal & Seed Co.

714 Idaho Street Phone 1 Boise, Idaho

*Plant & eat
Vegetables
for Health*



To Friends and Patrons

In presenting our 1937 catalogue, we desire to express our appreciation for your former patronage and in these catalogued offerings we have endeavored to present to you only fresher seed at right prices from reliable growers and other lines of merchandise backed by growers and firms of established reputation.

ALL PRICES HEREIN QUOTED ARE SUBJECT TO MARKET CHANGES AND CROP CONDITIONS. WE FILL ALL ORDERS AT LOWEST MARKET PRICES.

WHEN AND HOW TO ORDER

Send in your combined orders for seeds, plants, supplies, etc., at once. We are prepared to fill orders as soon as this catalog reaches you. If you want part or all of your order held, state it distinctly with date when shipment is to be made. All orders for potatoes, plants, and other perishable goods are carefully booked on receipt, and filled in rotation as soon as weather permits. If shipped early, they are at buyer's risk.

Use Our Order Blanks—Fill out the spaces, giving postoffice and shipping point. It is best not to write letters on the same sheet as your order. *Do not forget to sign your name.*

Larger Orders—Any dealer, market gardener, institution or individual wishing seed in larger quantities, is requested to mail us a list of what is wanted, and we will promptly return it with the very lowest market prices. A letter of inquiry may save you dollars if you want to buy in quantity.

Prepay Stations—When you send in orders to go by freight or express, be sure that you add money enough to pay the charges if your station is a prepay point which is always the case where there is no regular agent.

Complaints or Praises—If you are well pleased with our goods and the manner of doing business, tell everyone. If you are not, tell us, so we can please you. Our best efforts will be put forth in filling all orders carefully and promptly in a way that will please you.

USE MONEY ORDERS, POSTOFFICE OR EXPRESS, BANK DRAFTS OR REGISTERED LETTERS

Stamps will be accepted on small orders.

BE SURE TO ORDER EARLY—BEFORE STOCKS ARE DEPLETED

NOTE—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.—We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, nursery stock, roots or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once.

If you are in doubt about what you should do, or want any special information, be sure to write us. We will be pleased to give your inquiry our careful attention, and advise you to the full extent of our knowledge.

For 1937 we offer the standard varieties that are most satisfactory and profitable to the growers in our territory. We do not specialize in novelties but encourage the selection and improvement of varieties of known value.

Central Coal & Seed Co.

714 IDAHO STREET

Phone No. 1

BOISE, IDAHO

From

CENTRAL COAL & SEED CO.

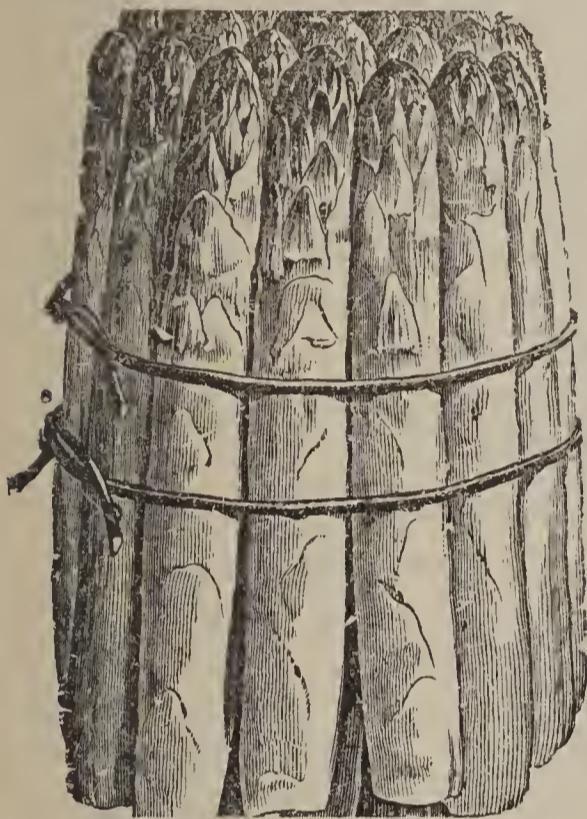
714 Idaho Street

Boise, Idaho



ASPARAGUS

To raise plants from seed about one pound per acre is required, or one ounce for about 800 plants. Sow early in the spring in drills 12 to 14 inches apart and thin to about 3 inches in the row. Allow plants to grow two full seasons and then transplant to permanent beds. It requires about 3000 plants to set an acre. When set out for crop, in the field or in beds, they require plenty of room, since the plants spread from the root, and therefore grow larger each year. In the field the rows should be from 6 to 10 feet apart and in the home garden 4 feet. During the spring all the shoots must be cut as fast as they reach the surface. Later in the season all the roots should be allowed to run to seed, and in the autumn all the tops should be cut off and burned and the land thoroughly cleaned up, and a good dressing of manure and wood ashes and sand should be placed into the beds.



MARY WASHINGTON

An improvement over the original Washington, being earlier, larger, fully as rust resistant. The long, heavy stalks have closely folded tips which do not sprangle out permanently. Pkt. 5c; oz. 15c; lb \$1.00, postpaid.

ASPARAGUS ROOTS

Weight estimated at 5 lbs. per 100. Large vigorous roots. 35c doz., postpaid; \$1.50 per 100; special price per 1000.

BEANS

CULTURE—The soil best adapted for growing beans is a light, rich, well-drained loam, which was well manured for the previous crop. Plant in drills about two inches deep and from 18 inches to 2 feet apart, as soon as the ground is dry enough and warm—about May 1st, or later, and for succession up to July 15th. Plant about 1 lb. of Dwarf or Bush Beans to 100 feet of drill, 1 bushel per acre. Pole Beans—1 lb. to 100 hills, requiring about half bushel per acre.

PENCIL POD BLACK WAX

One of the best round pod wax beans, both for home use and market. Bushy growth about 15 inches high, heavy foliage. Pods 6 to 7 inches long, round as a pencil, clear yellow, very brittle and stringless; rich mild flavor. An early sure cropper of the finest quality. Pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c, postpaid.

IMPROVED GOLDEN WAX

Very hardy and productive. A good second early variety of fine quality, but should be picked young to avoid strings. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c.

GIANT STRINGLESS GREEN POD

An excellent variety to follow Stringless Green Pod. The plants are of strong growth, pods meaty, brittle and stringless. Plant every two weeks until August 15th for succession. Pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c, postpaid. Write for quantity prices.

BURPEE'S STRINGLESS GREEN POD

Extra Early

The finely shaped, long green pods are absolutely stringless, and are ready to market two weeks earlier than any other green-podded bean. A splendid dried brown bean. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c.



DWARF HORTICULTURAL

Or Bush Cranberry

Very productive and compact in growth. Pods medium length, broad, thick, curved and splashed with red. Very desirable as a green shelled bean, maturing early. Seed large, oval, plump, splashed with bright red. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 20c; 1 lb 30c.

ROUND POD KIDNEY WAX

Especially fine for home gardens and for canning. Plants of medium size, prolific. Pods 5 $\frac{1}{2}$ to 6 inches long, round, fleshy, brittle, stringless, and of fine quality. Seed white with black eye, kidney shaped. $\frac{1}{2}$ lb 15c; 1 lb 25c, postpaid.

BABY LIMA

Grows erect to a height of 18 to 20 inches and requires no support. Very early and productive. The beans have the true Lima flavor, rich, buttery and tender. These are two weeks earlier than most Dwarf beans. $\frac{1}{2}$ lb 10c; 1 lb 15c, postpaid.

POLE OR RUNNING VARIETIES

GOLDEN POD KENTUCKY WAX

This vigorous wax podded Pole Bean is very similar to the green podded Kentucky Wonder, but the pods are a little broader. They are fleshy and stringless as snaps and are of excellent quality. The pods are very long, handsome light yellow. Its earliness and hardiness commend it for northern latitudes. Postpaid, $\frac{1}{2}$ lb 20c; 1 lb 30c.

LAZY WIFE

Pods are from four to five inches in length, produced in large clusters in great abundance. Dark green, thick, fleshy and stringless. Postpaid, pkt. 15c; $\frac{1}{2}$ lb 20c; 1 lb 30c.



BURPEE'S IMPROVED LIMA

This variety differs from the best strains of Burpee's in having much larger pods, while producing more beans. Pods and beans are not only larger in size, but are thicker. Grows vigorous; pods frequently borne in clusters of five to eight. $\frac{1}{2}$ lb 20c; 1 lb 30c; 3 lb \$1.40, postpaid.

KENTUCKY WONDER (Climber)

(Old Homestead.) This climbing variety is very vigorous and productive and bears its pods in large clusters. The pods are green, very long, stringless and very crisp when young, and so fleshy that they are greater in width than breadth. This is one of the very best early pole snap beans for the home garden or market. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c.

SCARLET RUNNER

A favorite as a shell bean and for its flowers, which are bright scarlet; seeds are broad and kidney shaped. Cooks in half time of any other. $\frac{1}{2}$ lb 20c; 1 lb 35c.

KING OF THE GARDEN LIMA

The vines are very vigorous and prolific. Pods are of large size, filled with four or five large beans of very fine quality. The beans are easily shelled and of handsome appearance. A favorite with market gardeners. $\frac{1}{2}$ lb 20c; 1 lb 30c, postpaid.

KOHL RABI

CULTURE—Sow seed in the Spring in drill three-fourth of an inch deep and 2 feet apart and when the plants are a few inches high, thin to 5 inches. Cultivate same as beets. Bulbs grow above ground. Root should be stripped and cook like turnips. Kohl Rabi has a much sweeter and finer flavor than the turnip. Sow in June for Fall use. Two pounds of seed required per acre.

EARLY WHITE

Very early, small, handsome, white bulb. Best early variety for the table. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb 65c.

EARLY PURPLE

A very desirable sort for forcing or early outdoor planting. Bulbs are of medium size, purple, flesh white. Very early, with small top, the leaf stem being tinged with purple. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb 65c.

BEETS

CULTURE—Sow seed 1 inch deep in rows 15 to 24 inches apart in fertile, well pulverized soil, using 5 or 6 lbs. of seed per acre. An ounce of it will sow 50 feet of drill. When a few inches high, thin to six or eight inches apart in the row.

EARLY BLOOD TURNIP

A standard medium variety of excellent quality; also good for summer and fall use. The flesh is deep red, zoned with lighter shades; sweet, crisp and tender, nearly round. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; $\frac{1}{2}$ lb 50c; 1 lb 90c.

EXTRA EARLY EGYPTIAN

The best variety for forcing, and for market gardeners, being very early with small tops. Roots very dark red, rounded on top but flat beneath, with very small tap roots. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; $\frac{1}{2}$ lb 50c; 1 lb 90c.

EARLY WONDER BEET

An extra early variety of recent introduction. Globe shaped and very uniform in size, skin smooth, and flesh is deep blood red and extremely tender. It is admirably suited to the home garden and also, on account of its earliness and superfine quality, suitable to the market gardener. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; $\frac{1}{2}$ lb 50c; 1 lb 90c.

DETROIT DARK RED TURNIP

A fine beet for bunching for market; tops exceptionally small and uniformly upright. The roots are perfect turnip shape with small tap roots. One of the deepest red beets. Quality is of the finest, sweet and tender; finest for home gardens. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.00.

MARKET GARDENER

Extra early and remarkable for its fine quality and rapid growth. Tops small, roots deep red, globe-shaped, flesh dark red, fine grained and tender. It is preferred by market gardeners because it matures evenly, stands long and does not split. Pkt. 5c; oz. 15c; 1 lb 90c.

SWISS CHARD

This variety does not produce an edible root like the regular garden Beet, but is highly esteemed for the broad, white leaf stalks and midribs which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach and considered equally palatable. Two distinct dishes may thus be grown from one plant at the same time. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c.

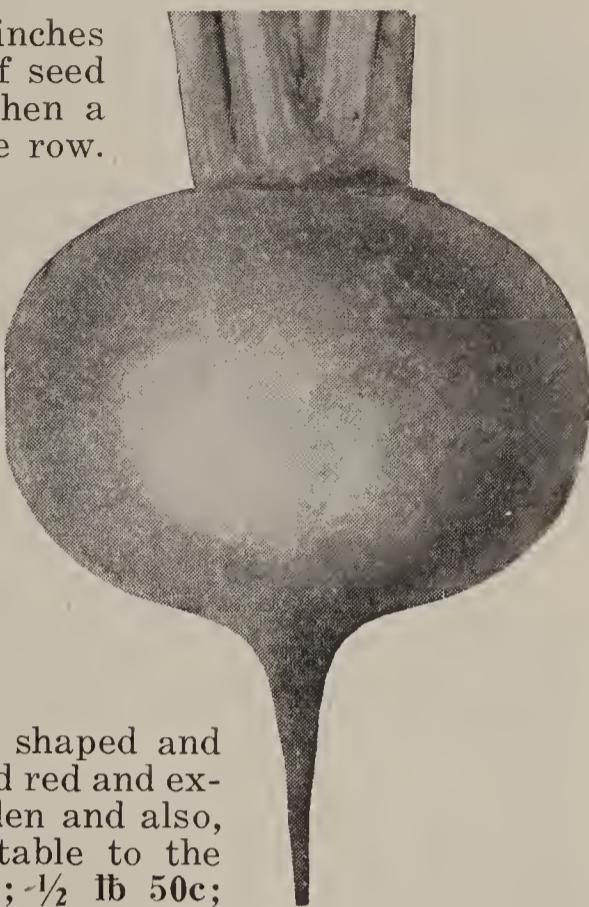
BEETS FOR STOCK—MANGEL WURZEL

DANISH SLUDSTRUP

Long, reddish-yellow, grows well above the ground, and is easy to pull. Has repeatedly been awarded a first-class certificate by the Danish government. Postpaid, oz. 10c; $\frac{1}{4}$ lb 20c; 1 lb 50c; 10 lb \$4.75.

GIANT FEEDING OR HALF SUGAR

A new variety, more valuable for feeding purposes than the old sorts; yields as much per acre as the best Mangels, and twice as much per acre as the rich Sugar Beets. Roots large, smooth with few rootlets; creamy white in color, medium sized tops. Postpaid, oz. 10c; $\frac{1}{4}$ lb 20c; 1 lb 50c; 10 lb \$4.75.



MAMMOTH LONG RED

An improvement on the Long Red, with ordinary cultivation. If you want a large crop of large Mangels of good quality, don't fail to try this sort. Very uniform, smooth and of good shape. Should be grown in deep, loose soil. Postpaid, oz. 10c; $\frac{1}{4}$ lb 20c; 1 lb 50c; 10 lb \$4.75.

BRUSSELL SPROUTS (Dwarf Improved)

The heads or sprouts are formed on the stalk of the plant, are one to two inches in diameter and resemble miniature cabbage. Postpaid, pkt. 10c; oz. 20c.

CAULIFLOWER

CULTURE—For early use, seed should be sown three-fourths of an inch deep in a greenhouse, hotbed, or in boxes in the house, about six weeks before the plants are needed for planting out. As soon as the soil can be worked in the Spring the plants should be removed to the open field and set in rows 2 feet apart each way. For late use, sow seeds in beds about May 10th, and when the plants are large enough to remove to the garden, setting them from 2 to 2 and one-half feet each way.

EUREKA EARLY SNOWBALL

An especially selected strain of Early Snowball Cauliflower, with very uniform solid, ball shaped, pure white heads and sufficient foliage to protect the heads from sunburn. Pkt. 20c; oz. \$2.00; $\frac{1}{4}$ lb \$5.50.

SUPER SNOWBALL

Matures about ten days later than our Eureka Early Snowball Cauliflower. Makes large, ball shaped heads of very good quality. Pkt. 25c; oz. \$2.00; $\frac{1}{4}$ lb \$6.00.

DANISH GIANT

Dry Weather Cauliflower

Early, large, solid white Cauliflower that can successfully withstand a drouth that would prove fatal to other varieties but, like all Cauliflower, must have rich soil and cultivation to give best results. Also does well under moist conditions. Pkt. 25c; oz. \$2.00; $\frac{1}{4}$ lb \$6.00.



CABBAGE

CULTURE FOR EARLY CABBAGE—Seed of the early varieties should be sown three-fourths of an inch in a greenhouse, hotbed, or in boxes in the house, about six weeks before the plants are needed for planting out.

As soon as the soil can be worked in the Spring, the plants should be removed to the open field and set out in rows two feet apart each way. One-half pound of seed will produce plants for one acre.

CULTURE FOR LATE CABBAGE—The seed may be sown in rows 1 foot apart

or broadcast in the garden about the middle of May, and the plants set in the field the latter part of June, or it may be planted in hills 30 inches apart, 4 or 5 seeds to the hill, in the field where the cabbages are to grow, thinning to one plant in a hill when the plants are 3 to 4 inches high. Where the seed is grown in the field, whether it be in rows or in hills, it should be covered with three-fourths of an inch of soil and this soil limed well to insure rapid germination. One-half pound of seed grown in a bed will produce plants for one acre.



SUREHEAD

Heads are large, round, flattened, uniform, very hard, firm and sweet, and average from 10 to 15 pounds each. Certain to head, a good shipper and a fine keeper. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 65c.

EARLY JERSEY WAKEFIELD

The favorite early cabbage with our market gardeners. A sure header. The thick, stout leaves and compact habit make it the best for wintering over and very early setting. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 65c; 1 lb \$2.00.

IMPROVED AMERICAN DRUMHEAD

Savoy. The best variety of Savoy or crumpled leaf Cabbage. The plant is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 65c.

LATE FLAT DUTCH PREMIUM

A low growing variety; heads large, bluish-green, round, solid, broad and flat on top; an excellent fall and winter variety and a good keeper. It is a sure header, and we consider it superior to any other strain of Flat Dutch Cabbage on the market. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 65c; 1 lb \$2.00.

COPENHAGEN MARKET**A Splendid Cabbage for Home Gardens**

A new, extra early, globe-shaped Cabbage, slightly flattened. The large, solid heads are very uniform, with few outer leaves; keeps well and stands handling and we recommend it to our customers as the best early round head. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 65c; 1 lb \$2.25.

EARLY DWARF FLAT DUTCH

Grows low on the stem; a sure header; firm, fine grained, tender and excellent. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 65c; 1 lb \$2.00.

KALE OR BORECOLE

CULTURE—More hardy than Cabbage and makes excellent greens. Improved by a touch of frost. Sow in May and June, cultivate same as Cabbage.

DWARF CURLED KALE

This is more hardy than Cabbage and makes excellent greens for Winter and Spring use. The leaves are curly, bright green, very tender and delicate in flavor. Sow seed in May or June, transplant in July and cultivate same as Cabbage. For early Spring use, sow in September; protect over Winter with a covering of straw or litter. Pkt. 5c; oz. 15c.

RED CABBAGE**Odense Market**

Used for pickling. The heads are very fine and remarkably sure heading. Pkt. 5c.

GOLDEN ACRE

This is a new round-headed Cabbage which closely resembles the Copenhagen Market in type, but is 8 to 10 days earlier and on account of being smaller can be planted closer. Head is medium size, quite round and has few outer leaves. Very firm and fully equal to any of the late sorts. Postpaid, pkt. 10c; oz. 20c; $\frac{1}{4}$ lb 70c; 1 lb \$2.25.

DANISH BALL HEAD SHORT STEM**Very Vigorous, Splendid Quality**

An earlier, shorter stemmed improved strain of the Danish Ballhead Cabbage. The heads are hard, very solid and mature about two weeks before the Ballhead, averaging a little larger and heavier. The inner leaves are blanched almost pure white, are of sweet flavor, crisp and tender. It is less liable to blight and shows vigorous growth even in the hot Summer. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 70c; 1 lb \$2.25.

CELERY OR CHINESE CABBAGE

Improved Chinese Cabbage. It is easily grown and does well in nearly all parts of the country. It should be grown like a late Cabbage, planting in July, as early plantings run quickly to seed. The seed is sown in drills 16 to 20 inches apart and the seedling trimmed two or three times. The full-grown plant somewhat resembles a Cos Lettuce in appearance. It has a mild flavor and may be eaten raw or cooked. Boiled and seasoned with butter, it is especially delectable. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb \$1.25.

LEEK

The Leek belongs to the Onion family. Prized for soups. Cultivate same as Onions; should be hilled up about the neck to branch it. Postpaid, pkt. 10c; oz. 25c; $\frac{1}{4}$ lb 85c; 1 lb \$3.00.

for Early, Crisp Vegetables

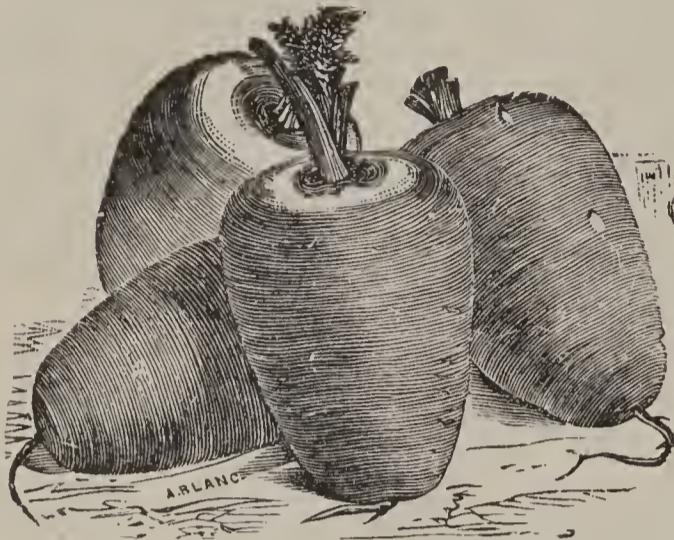
*feed them this complete,
balanced diet*

VIGORO
Complete plant food



CARROTS

CULTURE—A sandy loam is the best for the Carrot, but any good land, if thoroughly and deeply worked, will produce satisfactory crops. Sow as early in the Spring as the ground is fit to work, though good crops may be grown from sowing as late as June 15. For table use, sow the smaller kinds in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart. Cover one-half to 1 inch deep and see to it that the soil is well firmed above the seed.



EARLIEST SHORT HORN

The earliest variety in cultivation, and best suited for forcing. Roots reddish brown, globular and about 2 inches in diameter; should be used before full grown. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.25.



HALF LONG SCARLET NANTES

Tops of medium size; roots cylindrical, smooth, bright orange; flesh orange, becoming yellow in center, but with no distinct core. Of the finest quality and one of the most symmetrical and handsome of the medium sized sorts; excellent for market or home garden. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.25.

IMPROVED DANVERS HALF LONG

Our strain of this popular Carrot has a root which comes to a blunt point, a very beautiful Carrot. A first-class Carrot of all soils. The root is of a rich, dark orange color; it is very smooth and heavy yielding, 20 to 30 tons per acre not being an unusual crop. Prices for large or small lots. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.00.

CHANTENAY RED CORED (Coreless)

Roots 5 to 6 inches long, 2 to $2\frac{1}{2}$ inches thick at the crown. Color deep orange-red. A fine medium early, half-long stump-rooted Carrot. Core reddish orange. Oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.00.

IMPERATOR

A recent introduction for market garden use and long distance shipping. Tops medium length, strong. Roots 7 to 9 inches,

sloping shoulders tapering to semi-blunt tip. Exterior smooth, color rich orange. Interior deep orange which extends to core. Good quality. Oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.00.

OXHEART

A thick Carrot, 5 or 6 inches long, and blunt at the lowest extremity. It grows very rapidly and the root attains a weight of more than a pound. It is tender and of good flavor. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb 90c.

YELLOW CARROT—For Stock

This is a very large and a very rich stock Carrot. We can say that there is no yellow Carrot that can approach this one in size, yield and in feeding qualities. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c; 1 lb 80c.

WHITE MASTODON

Roots half long, 7 to 9 inches in length, smooth, very heavy at shoulder and tapering to point. Color creamy white with light green crown. White flesh, solid, crisp and of excellent quality for stock. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c; 1 lb 80c.

CHICKORY

Large rooted. Used as a substitute for coffee; and the young blanched shoots for salad. Pkt. 5c; oz. 15c.

CELERY

CULTURE—Sow the seeds early, about February, in a hot-bed or cold frame. When 3 inches high transplant, setting them about 4 inches apart. When grown 6 inches and fine stock plants, set in richly manured deep soil, in rows $3\frac{1}{2}$ feet apart and about 9 inches from plant to plant. Blanch by placing board along the rows, or earth up a

little, continue doing so at intervals until only the tops of the leaves are visible late in August. Never hoe up the earth when the plants are wet. One ounce of seed produces about 600 plants.



TRUE WATER CRESS

One of the most delicious of small salads, and should be planted where a suitable space can be found. The seed should be sown and lightly covered in gravelly, mucky lands, along the borders of small, rapid streams. Postpaid, pkt. 10c; oz. 40c.

Usually grown as an edging and has a mild flavor of young onions. The leaves are used in soups and salads for seasoning. Pkt. 10c; oz. 65c.

MUSTARD

Mustard is used alone as "greens," or with Cress as salad. Sow any time in the Spring, in rows, and thin out as necessary.

SOUTHERN CURLED

Hardy and vigorous, with large light-green leaves, crimped and frilled at the edges. Excellent while young for salads and garnishing. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c.

SMOOTH LEAVED

Bears large, light green, smooth leaves, well above the ground. Plants grow quickly, upright when young and spread out with age. More easily prepared for table than the rough sorts. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c.

ENDIVE

This is a hardy vegetable, cultivated principally for winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

GREEN CURLED—Standard sort for Fall and Winter. Pkt. 5c; oz. 15c.

GIANT PASCAL

Excellent for Fall and Winter use. A large, tall grower of the finest nut flavor. Very broad stalks, blanching very quickly with little banking up; an admirable keeper. Pkt. 10c; oz. 25c; 4 ozs. 75c.

WHITE PLUME

The Leading Celery

A handsome, crispy sort, of very easy cultivation. It is the earliest Celery known. Postpaid, pkt. 10c; oz. 30c; $\frac{1}{4}$ lb 90c; 1 lb \$3.00.

GOLDEN SELF-BLANCHING

Imported

The Finest Strain of French Grown Seed

A good standard early variety, blanching easily. The heart is rich gold yellow; the outer leaves yellow. Postpaid, pkt. 15c; oz. 85c; $\frac{1}{4}$ lb \$3.00; 1 lb \$10.00.

UTAH OR GOLDEN CRISP

A much stouter, thicker and heavier Celery, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth and branches to a creamy white. Ribs perfectly solid, crisp and of a delicious nutty flavor. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb \$2.00; 1 lb \$5.00.

CRESS

CURLED OR PEPPER GRASS

This salad is much used with lettuce, to which its warm, pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart on very rich ground, and the plants well cultivated. It may be planted very early. Postpaid, pkt. 5c; oz. 15c.

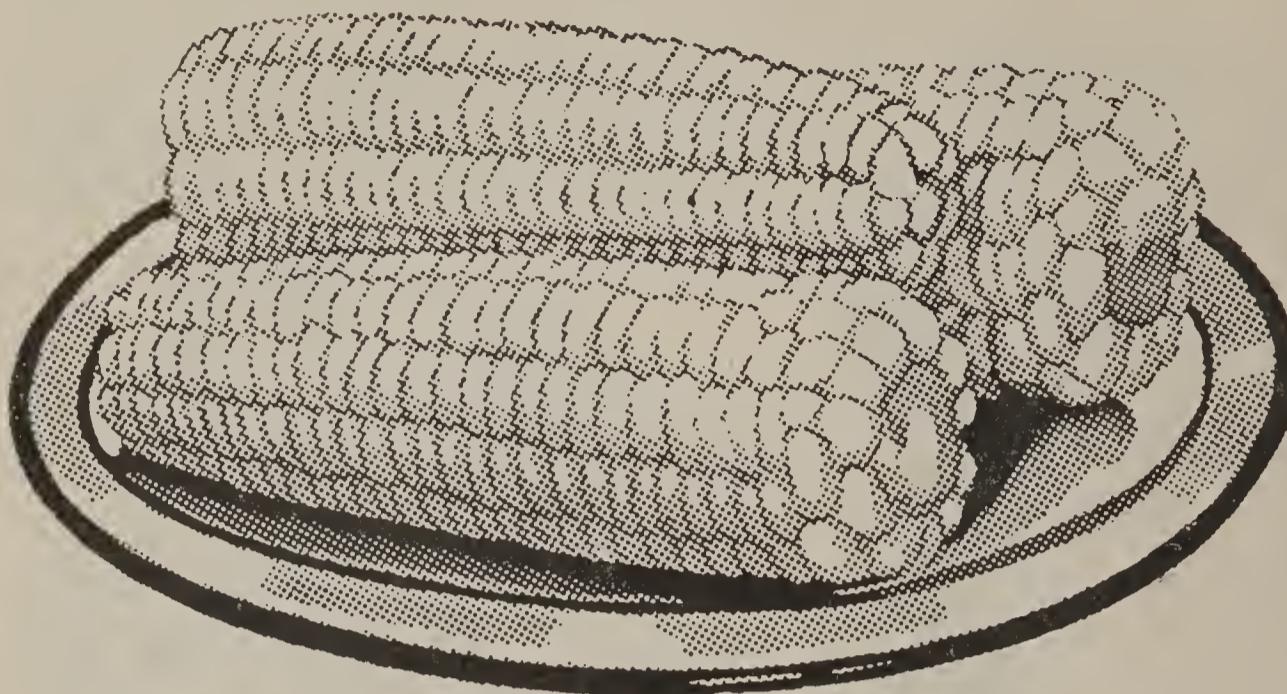
CHIVES

Usually grown as an edging and has a mild flavor of young onions. The leaves are used in soups and salads for seasoning. Pkt. 10c; oz. 65c.

WHITE ENGLISH

Leaves are dark green, small, smooth and deeply cut; mild and tender when young. The seeds are large and light yellow. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c.

SWEET SUGAR CORN



HOW TO GROW CORN—Sweet Corn should be planted as soon as the soil is thoroughly warmed in Spring, and successive planting should be made at intervals of two weeks; or early, medium and late varieties planted, for succession. It is very sensitive to frost, and early plantings may be killed, but it is neither much trouble nor expense to replant. If the early plantings are not killed, the result will be worth taking a chance for.

OREGON EVERGREEN

Similar to Stowells' Evergreen but earlier. Bears three to five large ears, having 16 to 18 rows of sweet kernels, generally compact and straight. Husk is thick and remains in prime condition several days after being pulled. $\frac{1}{2}$ lb 15c; 1 lb 20c.

KINGSCROST GOLDEN BANTAM

A hybrid corn with an eight-row bantam ear. It is a week earlier than the bantam. The flavor is much sweeter than bantam and it stays tender longer. Pkt. 10c; $\frac{1}{2}$ lb 20c; 1 lb 30c.

IMPROVED BANTAM

Sometimes called the Twelve-Rowed Bantam. It is a few days earlier than the Golden Bantam and has a much larger ear, it also carries all the good qualities of the latter. Pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 20c.

GOLDEN GIANT

A mid-season yellow variety, the result of crossing Golden Bantam and Howling Mob; good for home and market garden planting. Ears rather thick at the butt, 12 to 16 rowed. Kernels golden yellow; of good quality. Pkt. 10c; 1 lb 20c.

GOLDEN SUNSHINE

An early yellow variety with good sized ear, particularly desirable for market garden use. Four to five days earlier than Golden Bantam. Ears 10 to 12 rowed. Kernels medium broad, golden yellow, sweet, tender and of good flavor. $\frac{1}{2}$ lb 15c; 1 lb 20c.

STOWELL'S EVERGREEN

Remarkable for remaining a long time in a fresh condition suitable for the table. Hardy and productive and the best late variety for general use. Pkt. 10c; 1 lb 20c, postpaid.

EARLY MINNESOTA

An early sort of excellent quality. Ears are long, with 8 to 10 rows of large white grains. A large producer and desirable for market, home and canning uses. Pkt. 10c; 1 lb 20c, postpaid.

COUNTRY GENTLEMAN

These ears are not only good size, but are produced in great abundance, frequently bearing four good ears, while the average is three to a stalk. The cob is very small, giving great depth to the kernels, which are of pearly white quality. It is without doubt the sweetest and most tender of all sweet corns. Pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 20c, postpaid.

GOLDEN BANTAM

One of the most popular of all varieties. The ear is a golden yellow, tender, sweet and delicious. Stalks about 5 feet high. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 20c; 10 lb \$1.75.

VIGORO
Complete plant food



FOR MORE *Beautiful*
— *Luxuriant*
SWEET PEAS
and **LUPINES**
and
FOR GREATER YIELDS
of Luscious
GARDEN PEAS
and **BEANS**

INOCULATE
with

The Original Legume Inoculator

NOBBE-HILTNER PROCESS

NITRAGIN

TRADE MARK REG'D., DEC. 6, 1898. NO. 32212

Restores and Maintains Soil Fertility

MIX WITH SEED BEFORE PLANTING.

Millions of live nitrogen gathering bacteria—safe and harmless ready to make your garden grow. Inoculates any amount up to 4 lbs. seed.

Now 10¢



READ OTHER SIDE

NITRAGIN also obtainable for alfalfa, clovers, soy beans, vetch—all legumes

CENTRAL COAL & SEED CO.
Boise, Idaho

EVERY *Gardener* SHOULD KNOW

That Peas, Beans, Sweet Peas and Lupines belong to the Legume family — plants that bear their seed in a pod — like clover and alfalfa. All legumes form a partnership at the roots with certain kinds of helpful bacteria called Legume Bacteria, that are able to pump or draw nitrogen from the air and give it to the plant. They form on the roots in colonies, looking like lumps, called nodules, which are really nitrogen storehouses.

Without these bacteria, legumes would rob the soil of nourishment and have a sickly growth. Few soils contain a natural supply of these beneficial organisms. It is therefore necessary to "inoculate"—apply these nitrogen-gathering bacteria directly to the seed before planting. All agriculturists recommend inoculation for legumes.

GARDEN

PEAS
LUPINES

BEANS
Sweet Peas



NITRAGIN—a trade name—is a granular soil-like substance, teeming with millions of nitrogen-gathering legume bacteria, scientifically grown, and packed in neat yellow and black containers. Directions on every can. Safe and easy to apply to seed before planting.

10c

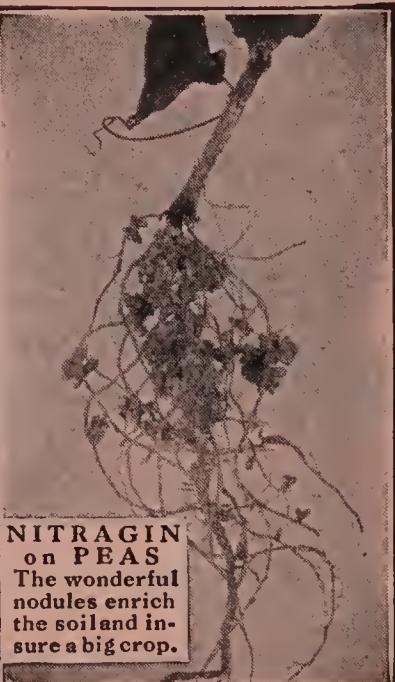


10c

NITRAGIN IS DATED

Because Legume bacteria are PERISHABLE, every package OF NITRAGIN is DATED for the year contents must be used, which guarantees the gardener fresh, live Legume bacteria. Undated inoculators may be old and worthless. Many millions of live, but absolutely harmless Legume bacteria are packed in each package of NITRAGIN Garden Size.

NITRAGIN Garden Size effective ONLY on Pea, Bean, Sweet Pea and Lupine seed. Should not be confused with seed disinfectant.



**NITRAGIN
on PEAS**
The wonderful
nodules enrich
the soil and in-
sure a big crop.

THE NITRAGIN CO., INC.
Milwaukee **Wisconsin**

Central Coal & Seed Company
BOISE, IDAHO
— ORDER BLANK —

Please send the following seeds, etc.

State whether goods are to be shipped

by Freight, Express or Mail....

Your Name..

Postoffice.

P. O. Box..

County-

State.

R. F. D. No.

St. and No..

Express or Freight Office

Express Co. or Railroad.

Date.....

AMOUNT ENCLOSED

P. O. Order.....\$.....

Express Order \$.....

Draft \$

Cash \$.....

Stamps \$

Total.....\$.

GUARANTEE—We give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any Seeds, Bulbs or Plants we send out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

If you have anything to write to us with this order, please write it on a separate sheet.

If you need more order sheets and self-addressed envelopes, ask for them, and they will be mailed to you free.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

CUCUMBERS

CULTURE—Plant the seed three-fourths of an inch deep in hills four to six feet apart each way according to the variety, about corn planting time, allowing 10 seeds to the hill. As soon as the plants commence to run, remove all but three or four of the most promising ones in each hill. The seed may also be started in old berry boxes by placing them in a hotbed. When the weather is suitable—settled and warm—remove the box as the plants are placed in the garden. One ounce required to 60 hills; 2 to 3 lbs. to acre.

STAYS GREEN (Black Diamond)

A handsome, early, medium sized, prolific variety. Fruit is a rich dark green in color, flesh is pure white. One of the finest quality. Does well almost anywhere. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 45c; 1 lb \$1.25.

WEST INDIA GHERKIN

Oval shaped; for pickling only. Postpaid, pkt. 10c; oz. 20c.

BOSTON PICKLING

Very productive, grown largely for pickles. Fruit is medium sized, very smooth, bright green. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 45c; 1 lb \$1.25.

EARLY GREEN CLUSTER

Fruit small, grows in clusters of two or three; very prolific, short, dark green. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 45c; 1 lb \$1.25.

IMPROVED ARLINGTON WHITE SPINE

The fruit is uniform in size and shape, averaging seven to eight inches long. Color dark green, quality excellent, and contains but few seeds. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 45c; 1 lb \$1.25.

LONGFELLOW

The vines are exceptionally healthy and productive and fairly early. The fruits will average 12 to 14 inches in length by $2\frac{1}{2}$ inches in diameter and are very symmetrical. Color dark green. Desirable for home garden, and for shipping; also used for greenhouse forcing. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 50c; 1 lb \$1.60.

JAPANESE CLIMBING

A vigorous grower, can be trained on a trellis. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 50c.

LONG GREEN

Produces dark green fruit from 10 to 14 inches long. Fresh, solid, crisp and of fine quality. Fine for slicing and pickling. Postpaid, pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 50c; 1 lb \$1.75.

CHICAGO OR WESTERFIELD PICKLING

Its name is derived from its popularity with large Chicago pickling concerns. A small early variety, uniform in size and shape, and very productive. Fruit 7 inches long, $2\frac{1}{2}$ inches thick. Green with prominent black spines. Tapers slightly toward each end. Oz. 15c;

EGG PLANT

Should be started in a hotbed and transplanted when the weather is settled and the ground thoroughly warm. They will thrive with the same treatment as that given the tomato.
 $\frac{1}{4}$ lb 50c.

NEW YORK IMPROVED SPINELESS

The leading market variety. Large, round, dark, excellent and the most productive. Pkt. 10c; oz. 50c.



LETTUCE

CULTURE—Sow in the house or in frames any time after March 10th; if put outdoors, as early in the Spring as the ground can be worked and at intervals of two weeks after June 1st. Soil should be a rich, sandy loam with plenty of humus. Rows to be $1\frac{1}{2}$ feet apart, plants 2 inches apart in row after thinning. Two ounces of seed will sow 150 feet of row, 4 or 5 pounds required per acre.

BROWN DUTCH OR PRIZEHEAD

Forms a large, solid head, sweet, tender and of good flavor. Outer leaves are tinged with brown. It is very heavy. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.25.

NEW YORK NO. 12

This type has been developed from the standard New York flat-headed type, but is an improvement over the original, being earlier, surer header, and producing larger and more solid heads, and is slower going to seed, and not so liable to sun-scald. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb 50c; 1 lb \$1.50, postpaid.

GRAND RAPIDS

For Early Forcing

A very popular loose-leaved variety for greenhouse forcing. It grows quickly, is hardy, not liable to rot, remains in condition for cutting for several days, and stands shipping better than most sorts. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.25.

ROMAINE, COS OR CELERY LETTUCE

A very distinct variety of Lettuce, having large, elongated, compact heads that blanch mild and crisp. The plants are of erect growth, forming a tall, slightly oblong bunch of large crisp leaves. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 60c.



EARLY CURLED SIMPSON

A standard variety for forcing or for very early outdoor culture. The leaves, in loose clusters, are light green in color, slightly frilled and much blistered, are crisp, tender. Especially adapted for sowing thickly and cutting while the plants are young. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.25.

NEW YORK OR WONDERFUL

Best Head Lettuce for Market Growers

This is the mammoth Head Lettuce. The immense heads are solid, heavy, beautifully blanched to a creamy white with light green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. "New York" is a hardy, rapid grower, deep rooted and resistant to drouth; a slow seed-er and sure to head. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 50c; 1 lb \$1.50.

NEW YORK NO. 515

An early variety well adapted to summer and early fall production. Resistant to tip burns. An improvement on New York No. 12. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 45c; 1 lb \$1.50.

OKRA OR GUMBO

CULTURE—Sow the seed thickly in rich ground as soon as the ground has become warm, in drills three feet apart and one inch deep. Thin out to 10 inches apart and cultivate freely.

DWARF GREEN

Grown for its green pods, which are used in soups, stems, etc., to which they impart a rich flavor and are considered very nutritious. Produces an abundance of long, slender, pale green pods, which are very tender when young. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c.

WHITE VELVET

The plants are about three and one-half feet high, early maturing and very productive. The pods are white, long, smooth and are tender until nearly full sized. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c.

MUSKMELOON

CULTURE—Muskmelons delight in moderately rich, warm, mellow loam. The seed should be planted in the Spring upon the arrival of settled warm weather. Plant seeds one inch deep in hills four to six feet apart each way, and as soon as the plants begin to run remove all but four of the most likely ones.

ROCKY FORD

Oval, slightly ribbed, densely covered with coarse netting. Flesh is thick, green, very sweet, highly flavored, wonderfully uniform in shape and quality. A favorite with market gardeners. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.25.

GOLD-LINED ROCKY FORDS

Of a fine, uniform shape and without ribs; slightly oval, meat thick, light green with a light golden-yellow rind. Flesh very sweet and spicy. There is no better melon than this. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.25.

EXTRA FANCY HACKENSACK

Fruit attains a good size, weighing four to six pounds each. The melons are round, heavily ribbed; skin is green and thickly netted; flesh is light green, of delicious flavor, rich and sugary. It is also a luxuriant, healthy grower, and exceedingly productive. The earliest of all large netted melons. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.25.

HONEY ROCK

Also known as Sugar Rock. A recent introduction which has won wide favor. Fruits nearly round, medium, weighs 4 pounds. Skin grey-green, covered with a coarse netting. Flesh thick, juicy orange-salmon, with fine flavor. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c.

HOODOO OR HEARTS OF GOLD

A new and excellent variety; an ideal shipper of medium size; rind thin; flesh very thick, firm and highly colored; of fine texture and delicious flavor. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.25.



HALE'S BEST

An extra early salmon tint of remarkable flavor. Seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted and very attractive. It is 10 days to two weeks earlier than any other strain of the famous Rocky Ford or Netted Gem variety. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.25.

BANANA

Grows one and a half to two feet in length and three to four inches in diameter; flesh salmon and exquisitely flavored, resembling banana. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 50c.

NEW HONEY DEW

The skin is smooth with an occasional net and when fruits are ripe is creamy yellow in color. Flesh light emerald green; fine grained and of very sweet, sugary flavor. Rind thin, but very firm, and the fruit stands shipping remarkably well. If picked shortly before fully matured, the fruits will keep for several weeks. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb 50c; 1 lb \$1.50.

PARSLEY

CULTURE—Sow seed in shallow drills in the very early Spring for a border or in rows 12 to 18 inches apart, and thin the plants to four inches. Cultivation should be frequent and weeds kept removed. One ounce of seed will sow 150 feet of row; six pounds of seed required for an acre.

DARK MOSS CURLED

The leaves are of an extra dark green color. It is very productive, and on account of the densely curled character of its leaves a quantity can be gathered in a short time. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c.

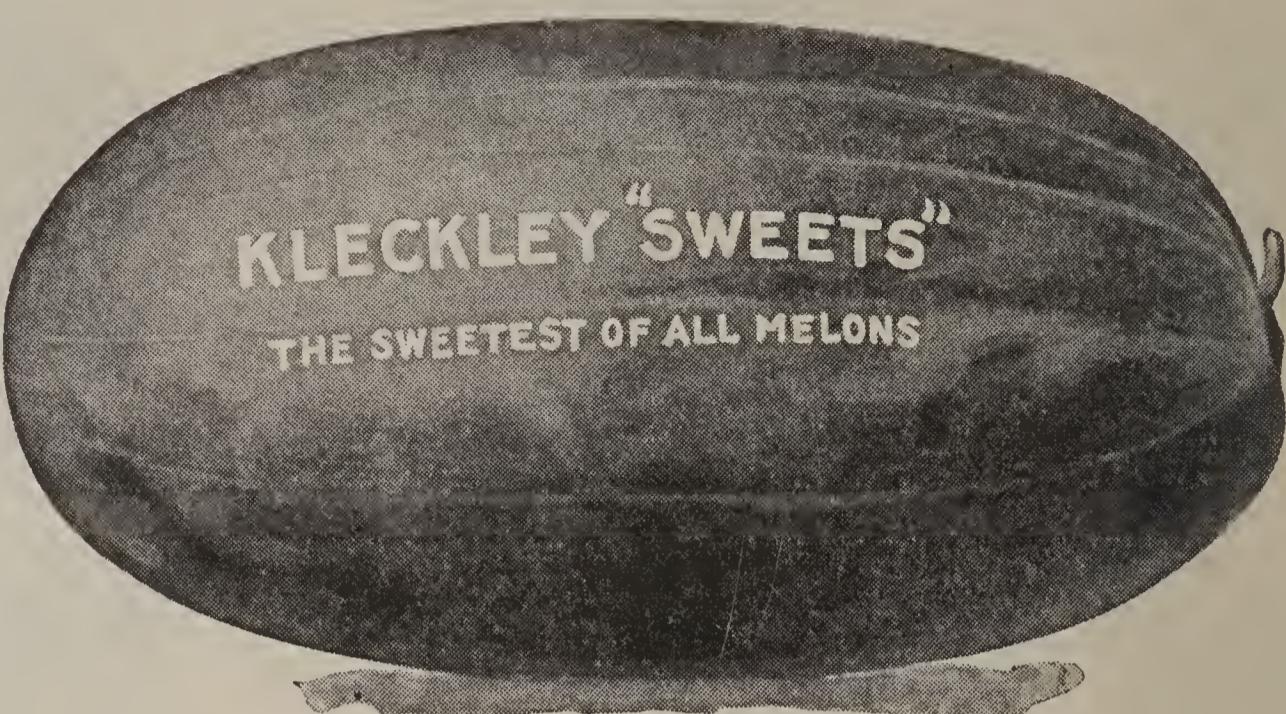
DOUBLE CURLED

Fine, dwarf, crimson leaves. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c.

CULTURE—
Watermelons thrive best on light, well-drained soil, but give good results on any good rich garden soil that is properly drained and cultivated.

Plant after the weather is settled and ground is warm. Hills should be eight feet apart each way and with well-rotted manure thoroughly worked into each hill. One ounce of seed will plant 80 hills, two or three pounds to the acre. Thin to two or three plants per hill.

WATERMELONS



KLECKLEY'S SWEETS

The finest of all medium, early watermelons for home use. The rind is too thin to stand long-distance shipment. The fruits are uniform in size, oblong in form, the skin is rich dark green, the flesh bright scarlet, the seeds lie close to the rind, leaving a very bright, solid, red core. The flesh is rich, sugary and melting, entirely free from stringiness. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c; 1 lb 90c.

ANGELINO, BLACK SEEDED

Very uniform, vigorous growers. Flesh very deep red, stringless and very sweet. The rind green, thin but tough. A real good shipper. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.00.

STRIPED KLONDIKE

An early garden and shipping variety similar to regular Klondike, but with irregular dark green stripes. Fruits oblong, of medium size, rind medium hard. Flesh bright red, sweet and crisp; seeds small, striped, varying in color from black to white. Pkt. 10c; oz. 20c; 1 lb \$1.75.

SWEETHEART

Remains in condition for use longer than any other sort. Fruit early, large, oval and very solid. Flesh bright red, tender and sweet. Rind thin, but strong. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb 90c.

KLONDIKE BLACK SEEDED

Klondike is offered with the assurance of being not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown. The flesh is of a deep scarlet. Rind thin, not a particularly good shipping sort, but is emphatically the variety for home use and sale. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.00.

SPECIAL OFFER

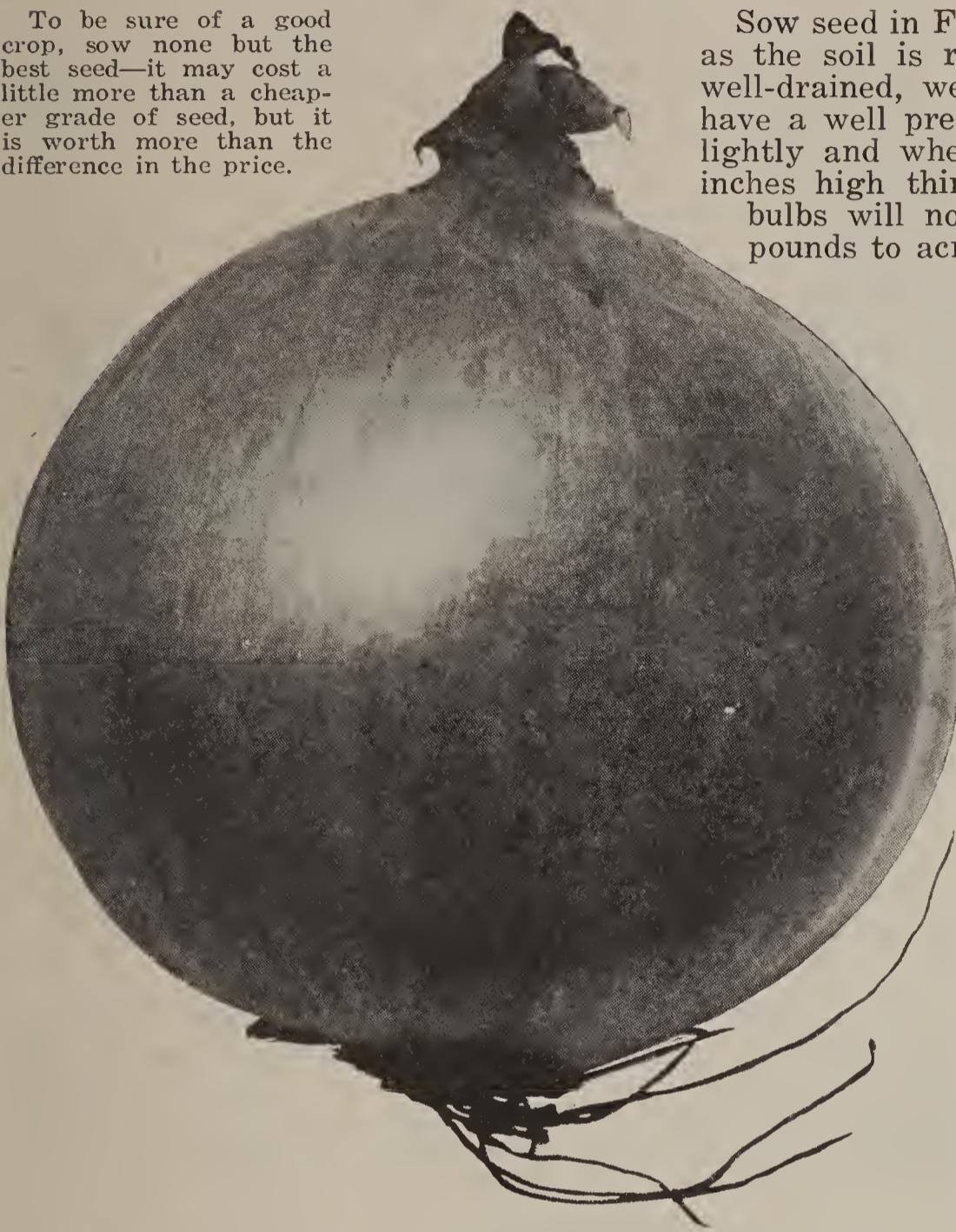
We have a number of new varieties of seed and we are making this as an introductory offer for a few of them.

Tender Green Bean.....Pkt. 10c
Round Podded Wax Bean.....Pkt. 10c
Early Egyptian Beet.....Pkt. 10c
Copenhagen Market Cabbage..Pkt. 5c
Stay Green Cucumber.....Pkt. 5c
Golden Bantam Sweet Corn....Pkt. 10c

Golden Giant Sweet Corn.....Pkt. 10c
White Tip Radish.....Pkt. 10c
Bonny Best Tomato.....Pkt. 10c
Rutgers TomatoPkt. 10c
Banana SquashPkt. 10c
\$1.00 VALUE ALL FOR 75c.

ONIONS

To be sure of a good crop, sow none but the best seed—it may cost a little more than a cheaper grade of seed, but it is worth more than the difference in the price.



WHITE SWEET SPANISH ONION

This new Spanish type of Onion is identical in shape and size and habits of growth to the Spanish Onion Valencia type, but requires a slightly longer maturity season, and the skin is pure white. The flavor is unusually sweet and mild. The size of the bulb and the yield is just as large as the yellow Sweet Spanish. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb 90c; 1 lb \$3.00.

SWEET SPANISH, Riverside Strain

A large, globe shaped light yellow onion, weighing 1 to 2 pounds, and unusually mild. Small top. A better keeper than the regular strain of Spanish onions. Postpaid, pkt. 10c; oz. 25c; $\frac{1}{4}$ lb 80c; 1 lb \$2.50.

AUSTRALIAN BROWN

Early and very hard variety which does especially well in Idaho. The skin is thick and the color is a rich brown. Is especially noted as long keeper, as it keeps well into Spring without sprouting or shriveling and much longer than other varieties. Postpaid, pkt. 10c; oz. 25c; $\frac{1}{4}$ lb 80c; 1 lb \$2.50.

Sow seed in February or March or as soon as the soil is ready. Onions do best in a well-drained, well fertilized soil, and must have a well prepared seed bed. Cover seed lightly and when plants are three to four inches high thin out enough that matured bulbs will not touch. Sow three to four pounds to acre.

SOUTHPORT RED GLOBE

The standard red globe onion all over the country. Perfectly globe shaped, about 3 inches in diameter with small neck. Skin rich, dark, glossy red; flesh white with tinge of purple; fine grained. A good keeper and exceptionally heavy yielder. Postpaid, pkt. 10c; oz. 25c; $\frac{1}{4}$ lb 80c; 1 lb \$2.50.

CRYSTAL WHITE WAX

A half globe sort, waxy pure white and of extremely mild flavor. The earliest of the White Bermuda types. A very attractive and popular onion both for sets and for the table. Extensively planted in the South but does well, also in the North. Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb 85c; 1 lb \$2.75.

SOUTHPORT WHITE GLOBE

White Globe Onions command the highest market prices when they are true globe-shaped and free from stain. Our Southport White Globe Onion meets these requirements, having a thin skin of purest whiteness. The flesh is crisp, fine grained, very white and mild. As soon as ripe the bulbs should be stored in cool, dark shed or dry cellar. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb 80c; 1 lb \$2.50.

WHITE BARLETTA

This variety is more distinct on account of its earliness. It is earlier than the White Queen. It is of a beautiful waxy white color and grows $1\frac{1}{4}$ inches in diameter and $\frac{3}{4}$ of an inch thick, with finely formed bulbs, slightly flattened at the top. Its earliness will highly recommend its use as a substitute for onion sets. An excellent bunching and picking sort. Postpaid, pkt. 5c; oz. 25c; $\frac{1}{4}$ lb 80c; 1 lb \$2.50.

SOUTHPORT YELLOW GLOBE

The most popular late variety of splendid keeping quality. More oval than the Yellow Globe Danvers, much larger, more solid and heavier. Skin deep orange-yellow, flesh fine grained and fairly strong. Pkt. 5c; oz. 25c; $\frac{1}{4}$ lb 80c; 1 lb \$2.50.

BOTTOM ONION SETS

Small onions grown from seed that has been sown too thickly to attain a large size. The small onions (about $\frac{1}{2}$ inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand, they make ripe onions of the best quality, and come

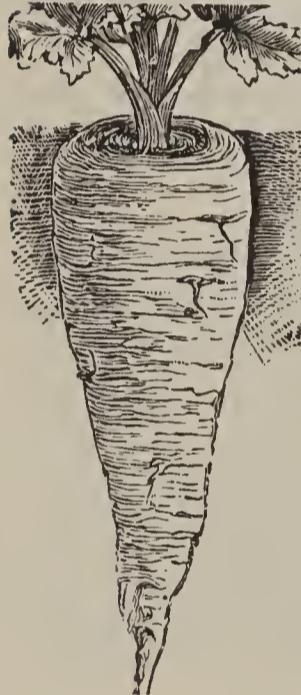
to maturity some six weeks earlier than a crop grown directly from the seed.

White and Yellow Bottom Sets, postpaid,
1 lb 20c; 6 lb \$1.00.

Feed Everything You Grow

*with this complete,
balanced diet*

VIGORO
Complete plant food

**PARNIPS**

CULTURE—As the seeds germinate very slowly, sow as early in Spring as possible, in drills 15 inches apart on deeply cultivated, rich, loamy soil. Keep clear of weeds and thin to three or four inches apart. The roots of the Parsnips are improved by freezing.

HOLLOW CROWN OR LONG WHITE

Root very long, white, smooth, tender, sugary, and of most excellent flavor. Very hardy; will keep through the Winter without protection. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c; 1 lb 85c.

SWEET MARROW PARNIP

This fine new Parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all Parsnips for the market or private garden. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c; 1 lb 85c.

PEPPERS

CULTURE—Sow the seed early in hotbeds; or later, when the weather becomes warm, in open beds. When two or three inches high transplant to a warm, mellow soil, in rows eighteen inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield.

CHINESE GIANT

Sweet. The mildest and best of the field Red Peppers. Four to five inches in diameter; color, brilliant deep red; borne in clusters; bush stocky, well branched; vigorous and about as early as Ruby King. Postpaid, pkt. 10c; oz. 60c; $\frac{1}{4}$ lb \$1.75.

**CALIFORNIA WONDER**

Fruits are large and blocky in form. Walls heavy, the flesh often being $\frac{3}{8}$ of an inch thick, deliciously crisp, tender and sweet. Color, a brilliant dark green changing to crimson when ripe. Pkt. 10c; oz. 60c; $\frac{1}{4}$ lb \$1.75.

CAYENNE

Pods long, bright red; very pungent and used very largely with pickles when green. Postpaid, pkt. 10c; oz. 50c.

PIMENTO

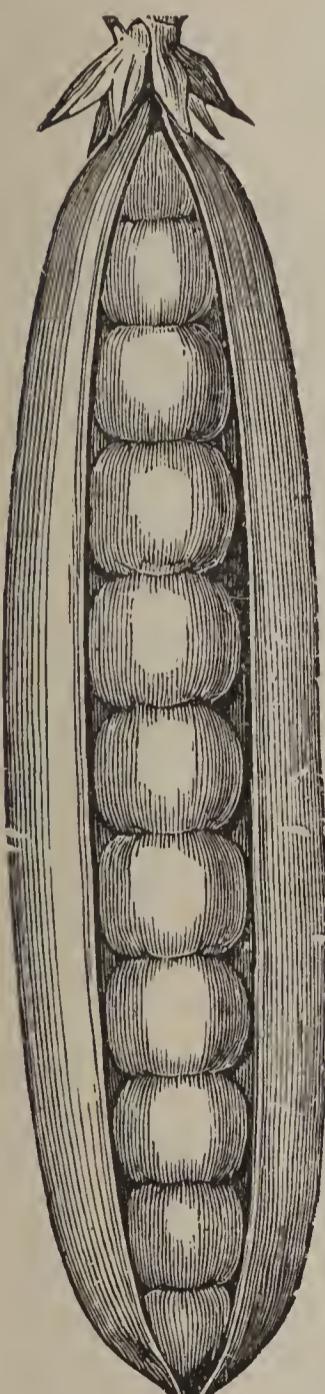
Fruit large, smooth and glossy. Deep green when young, becoming deep scarlet. Flesh thick, solid, mild and sweet in flavor. Postpaid, pkt. 10c; oz. 50c.

PUMPKIN

CULTURE—For seed sown with care, plant only one row in five, which, when the vines begin to run, may be omitted in cultivation and thus the plants will not be injured. Use a dibbler and plant three to five rows in every third hill of corn. Plant as a single crop in hills eight feet apart each way. Use Paris Green land plaster or wood ashes to control the striped squash bugs. When well established thin to four plants in each hill.

EARLY SUGAR OR PIE PUMPKIN

Small round, flattened, prolific, deep orange-yellow. Flesh fine grained, sweet and of finest quality. One of the best for pies. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.00.



MAMMOTH PRIZE

The largest pumpkin grown. Has weighed as high as 225 pounds. A winner. The flesh is fine grained and the quality is excellent. The flesh and skin are of a bright golden yellow color. Notwithstanding its large size it is a fine variety for pies and is a splendid keeper. Postpaid, pkt. 5c; oz. 15c; 1 lb \$1.25.

CONNECTICUT FIELD

An immensely productive, large, orange-colored field pumpkin, usually grown for stock feeding, but also makes good pies. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c; 1 lb \$1.00; 5 lb \$4.00.

PEAS—Early Varieties

(One pounds of seed for 50 feet of drill)

Peas from any one planting will remain in the best condition for use only for a comparatively short time. To have a constant supply throughout the season, a succession of planting should be made.

The dwarf varieties do not bear as heavily nor for so long a period as the climbing sorts, but for small gardens they have the advantage that they are grown almost exclusively by many western gardeners. One or two dwarf sorts sown every ten days or two weeks will maintain a supply.

TOM THUMB

Foliage heavy, bushy, growing to a height of 10 to 12 inches; very productive, and matures in less than 40 days after sprouting. Pkt. 10c; 1 lb 30c; postpaid.

ALASKA

Height 2½ feet. Very early and exceedingly uniform in maturing its crop. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 20c.

AMERICAN WONDER

Height 10 inches. The veins bear a great abundance of good sized pods containing five to eight large, exceptionally sweet, tender and well flavored peas. This is the earliest of the dwarf, wrinkled varieties. The seed is medium sized, wrinkled and pale green. Especially adapted for family use, as they require no bush. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c.

PROGRESS (Laxton's)

An excellent pea and the standard dwarf early variety for home gardens and shipping. May be planted almost as early as the smooth pea varieties. Vines 15 to 20 inches, dark green and very prolific. Pods 4 to 4½ inches long, $\frac{7}{8}$ inch wide, containing 8 to 10 large deep green peas. Pkt. 10c; 1 lb 25c, postpaid.

DWARF TELEPHONE OR CARTER'S DAISY

Grows from 20 to 40 inches high; the vines are very vigorous, of a branching habit, and bear for a long time a great quantity of large, dark green pods. It is one of the best second early, and, on account of its nice appearance, brings the highest price on the market. Must be sown further apart than other peas. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c.

ASGROW NO. 40

One of the best varieties for shippers and market gardeners. Height 26 inches; pods 5 to $6\frac{1}{2}$ inches long. Eight to ten large succulent peas. Vines dark green, stocky and branching. Pods round, dark green, curved at tip, exceptional in quality. Resistant to Fusarium Wilt. Pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c. Write for quantity prices.

TALL TELEPHONE

This variety is one of the finest branching, tall, wrinkled marrows yet introduced. It is immensely productive, of the finest quality, and excellent sugary flavor; vines strong, averaging 18 to 20 pods per stalk; the pods are of large size and closely packed with six to eight large, delicious peas. Height 4 $\frac{1}{2}$ feet. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c.

DWARF SUGAR EDIBLE PEAS

Two feet in height, producing a heavy crop of small, flat pods about 3 inches in length. Postpaid, $\frac{1}{2}$ lb 20c; 1 lb 30c.



HUNDREDFOLD

One of the best of the Laxtonian types; vine 2 feet high, sturdy, dark green and productive; pods dark green, 4 in. long, fairly broad and pointed, containing eight large, dark green peas; excellent quality. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c.

LITTLE MARVEL

An extremely valuable variety, especially suited to home gardens, and is also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 14 to 18 inches in height. The pods are dark green, fair sized, produced in pairs and are closely filled with seven to eight peas of extra fine flavor. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c; 10 lb \$2.00.

LITTLE GEM

Height, 16 to 18 inches. The vines are of dwarf growth and produce an abundance of round, well-filled pods 2 $\frac{1}{2}$ to 3 inches long. The peas are green, wrinkled of sweet, delicious flavor and excellent quality. Postpaid, pkt. 10c; $\frac{1}{2}$ lb 15c; 1 lb 25c. Write for quantity prices on all varieties.

SEED POTATOES

POTATOES — We will carry in stock Certified Netted Gems, Bliss Triumph and Early Ohio, also Non-Certified Netted Gem, Early Ohio, Bliss Triumph and Blue Victor potatoes, grown from certified seed and planted late. Write for prices.

SWEET POTATO PLANTS

Write for Prices on Early and Late Varieties

Plants ready from May 1 to June 15

Our large experience in this line enables us to make shipments to long-distance points with comparatively no loss. However, we do not guarantee safe arrival, as oftentimes mail is delayed or something happens beyond our control. If wanted by mail, postage should be added, 10c for 50; 15c for 100 plants. Will make special rates on large lots.

RED AND WHITE YAMS, 50 plants 50c; 100, 90c. Write for quantity prices.

YELLOW JERSEY, 50 plants, 50c; 100 plants, 90c; 1,000, \$7.50.

ORDER EARLY!

RADISHES

The Secret of Growing Good Radishes

The secret of growing good radishes consists chiefly in the observance of three points. First, they should be grown on light, quick soil. Second, they should be given plenty of water, and last but not by any means least, the right kind of seed should be sown. Radishes grow very quickly and if not supplied with sufficient moisture are likely to be pithy.

Sow seed one-half inch deep in the early Spring in rows one foot apart, and the more fertile the soil the faster they will grow. For a succession, sow every 10 days throughout the season and stir the soil sufficiently to keep out weeds. One ounce of seed required for 100 feet of row; eight to ten pounds of seed will plant one acre.

EARLY SCARLET TURNIP

A very popular standard variety for forcing and out-of-door culture. Highly esteemed for its mild flavor, firmness and crispness. Skin is bright scarlet, flesh snow white. Roots deep turnip shaped, almost round. Most delicious when one inch in diameter. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb 80c.

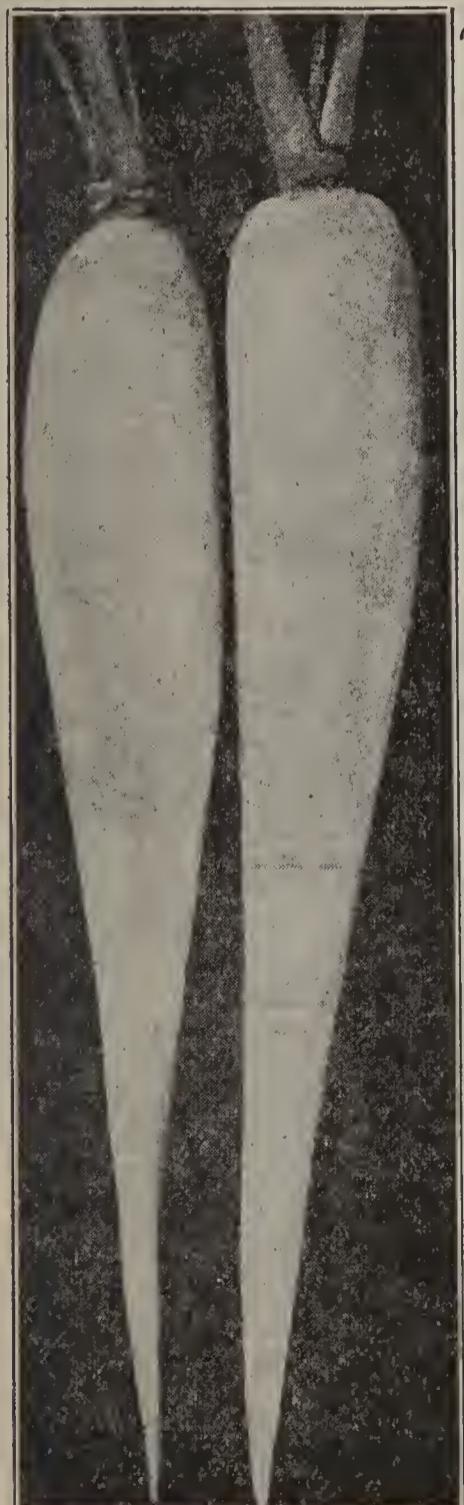
EARLY CRIMSON GIANT

The Largest Early Scarlet Turnip-Shaped Radish

A new, early radish, double the size of any of the turnip-shaped type, but notwithstanding its immense size, does not get hollow and pithy. The flesh is sparkling white, solid, crisp, juicy and of the mildest flavor. Excellent for both forcing and open ground. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb 90c.

WHITE-TIP RADISH

After several years experience in growing many strains of White-Tip Radish, we gave this particular sort the name "Sterling" because of its fine shape, its solidity, its superiority in every respect to all other strains of this type of radish. It is very early and equally desirable for outdoor culture and forcing under glass. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb 80c.



SPECIAL FRENCH BREAKFAST

It is oblong in shape, has a bright scarlet top and pure white tip. It matures quickly and is sweet, crisp, solid and tender. When offered for sale it quickly attracts the buyer's attention. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb 80c.

WHITE ICICLE

The finest of early, pure white varieties. They are long and slender, and clear, pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains larger size, thus remaining in condition for use for a considerable time. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb 80c.

LONG SCARLET SHORT TOP

A standard popular sort. Grows to six inches in length, matures in 25 days and can be used before it is fully grown. The roots grow half out of the ground, are very uniform in shape, smooth and very bright in color. It remains crisp and tender until fully grown. Excellent either for market or for private garden. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb 90c.

WINTER RADISHES

The merits of Winter Radishes are little appreciated, probably because they are seldom grown and few people have knowledge of their worth. Sow seed in the middle of June.

LONG BLACK SPANISH

One of the largest, latest as well as the hardiest of radishes. Roots of medium size, oblong, and flesh is of firm texture. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb \$1.00.

CALIFORNIA MAMMOTH WHITE

Pure white, about one foot long and two or three inches through, tapering to tip. The flesh is tender and crisp, keeping well through the winter. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb \$1.00.

CHINA ROSE

Bright rose color, flesh firm and piquant, cylindrical or largest at bottom, tapering abruptly to small top. One of the best for Winter use. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 30c; 1 lb \$1.00.

SALSIFY, or Vegetable Oyster

CULTURE—Sow early in Spring, in drills a foot apart, and when two or three inches high thin out to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy and may remain in the ground during Winter, or may be stored in dry earth or sand.

SANDWICH ISLAND

Grows uniformly extra large, averaging fully double the size and weight of the roots of the old variety. Of very superior quality and delicate flavor. Postpaid, pkt. 5c; oz. 25c; $\frac{1}{4}$ lb 75c.



SPINACH

NOBEL GIANT-LEAVED

The largest spinach; leaves are huge, thick, slightly crumpled, pointed with rounded tip; deep green, crisp, tender and delicious. Plants are large, vigorous and spreading. Grows rapidly and remains in prime condition for a long time, being slow to form seed stalks. A very heavy yielder and is excellent for home and market. Pkt. 5c; oz. 10c; 1 lb 50c.



NEW ZEALAND

The variety which endures heat and hence is an ideal variety for Summer use. It thrives in almost all soils. The leaves are comparatively small, broad and pointed, but the plant is large and spreading. The tender leafy shoots may be cut throughout the Summer. Pkt. 5c; oz. 15c.

ROUND THICK LEAVED

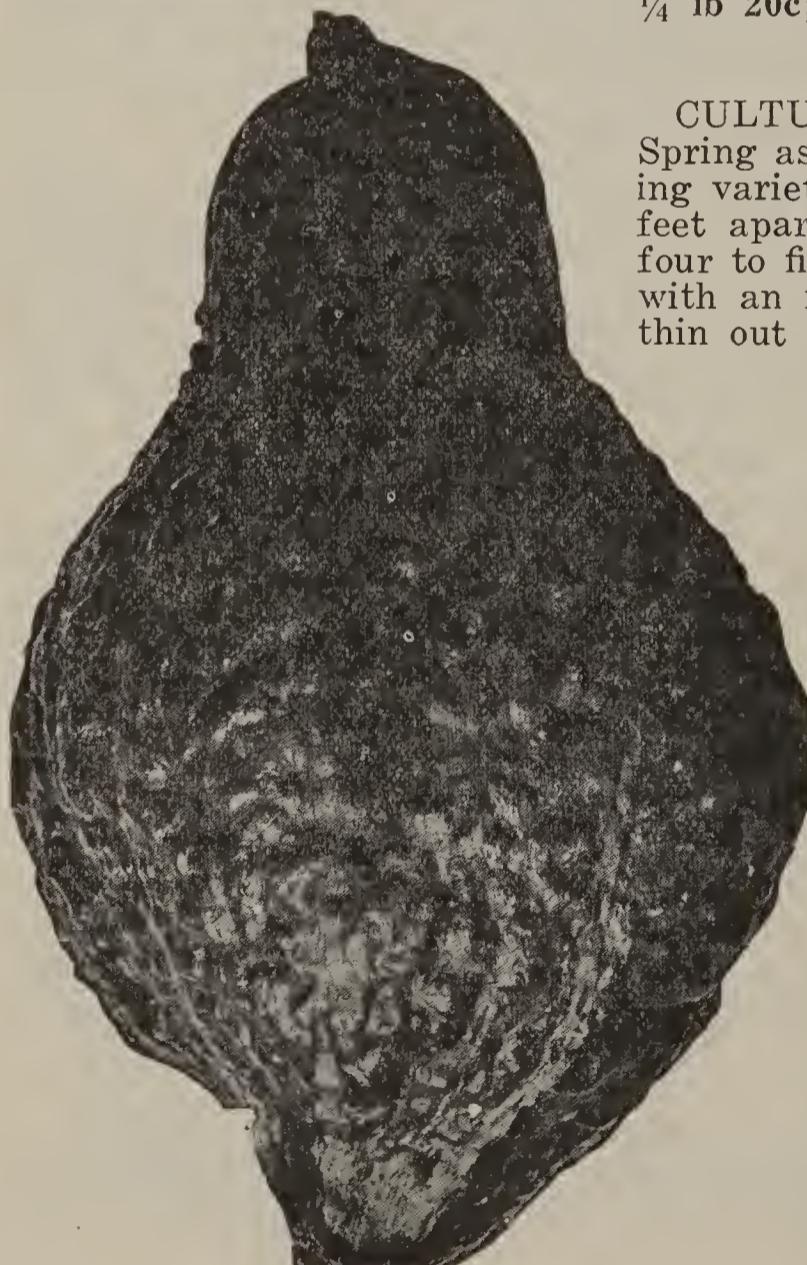
A rapid growing variety forming clusters of large, very thick and slightly crinkled leaves. A favorite with market gardeners. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 20c; 1 lb 50c. Write for quantity price.

SQUASH

CULTURE—Plant seed in extra fertile soil in the Spring as soon as danger of frost is past. The vining varieties should be planted in hills eight or ten feet apart each way, and the bush varieties from four to five feet. Place 10 seeds in a hill and cover with an inch of soil. When the plants are started thin out and cultivate. One ounce of seed required for 20 hills. For running variety $3\frac{1}{2}$ to 4 pounds seed required per acre. Bush varieties require six pounds of seed per acre.

BANANA SQUASH

Grows from one to two feet in length. Flesh firm and solid, of beautiful orange-yellow, and excellent quality. Rind or shell smooth and grayish-green color. Resists heat of the sun better than the Hubbard and, because of its excellent flavor and splendid keeping qualities, remaining in good condition from one season to another, is already superseding that variety in many localities. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.25.



IMPROVED TRUE HUBBARD

The best seller and most popular variety on our list. Rind is dark green, warty and very hard. Flesh light orange, very dry, sweet and rich flavored. Has no superior. Keeps perfectly through the Winter. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.25.

RED OR "GOLDEN" HUBBARD

This is identical in size, form and fruitfulness with the Chicago Warted Hubbard, the chief distinction being that the heavily warted skin is of a rich orange-yellow, turning to a deep salmon-red when ripened. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 35c; 1 lb \$1.25.

SUMMER VARIETIES**GOLDEN SUMMER CROOK NECK**

Early and prolific. The fruits are of the true crook-neck type, heavily warted and of light golden color; about one foot long. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c.

SIBLEY OR PIKE'S PEAK

Shell smooth, thin and of a pale green color; the flesh is thick, solid, deep orange color; very dry, fine grained with delicate flavor. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 45c; 1 lb \$1.50.

WHITE BUSH SCALLOP

(Patty Pan.) Matures early and will bear throughout the season if fruits are kept gathered. Squashes are clear white and of large size. Flesh is thick and of very fine quality. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c.

**JOHN BAER**

Extra early, scarlet fruited, hardy and productive. Shippers should try it. Postpaid, pkt. 5c; oz. 40c; $\frac{1}{4}$ lb \$1; 1 lb \$3.75.

MAMMOTH CHILI

The largest of all squashes. Outer skin is a rich orange-yellow. The skin is also yellow and very thick. Quality is very good. The highest value of this squash is in its use as stock food. Fruits often reach the weight of 150 lbs., making it an ideal variety for exhibition purposes. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.35.

COCOZELLE, ITALIAN VEGETABLE MARROW

A long Italian squash, 18 to 24 inches long and 4 inches thick when matured. Dark green marbled with yellow and lighter green stripes. Usually picked at the length of 5 or 6 inches and stewed or fried in olive oil. Pkt. 5c; oz. 10c.

TABLE QUEEN, DES MOINES OR ACORN

An excellent table squash. The fruits are about the size of a cocoanut, and half of one, baked, serves one person amply. The shell is smooth, and dark green, deeply furrowed, keeping as well as the Hubbards. Flesh is rich orange-yellow, cooking as dry and sweet as a sweet potato. An enormous yielder. Postpaid, pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 40c; 1 lb \$1.35.

TOMATOES

The newest types of hardy, prolific tomatoes are better adapted to the cool coast climate than the older sorts; and splendid crops are now being grown where heretofore it was thought tomatoes would not thrive. A good plan is to try several varieties and find which is best suited to your special conditions.

CULTURE—Sow early in hot-beds, and as soon as they have four leaves transplant them into shallow boxes. Harden off, and set out as soon as danger of frost is past. An ounce of seed will produce 3,000 to 4,000 plants.

If blight appears use "Bordeau," but it is better to use a preventive before blight strikes the plant, and as a control measure for flea beetles spray under side of foliage.

YELLOW PEAR

Bright yellow fruits, 2 inches long, pear shaped. Has rich, distinctive flavor. Postpaid, pkt. 5c; oz. 60c.

BONNY BEST

Standard second-early variety, valuable for market gardeners, shippers and canners. Vine medium. Fruits medium sized, apple-shaped, smooth, solid, bright scarlet in color, of excellent quality. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb \$1.00.

SCARLET TOPPER, or Pritchard

A scarlet, self-topping, disease-resistant variety originated by the late Dr. F. J. Pritchard. It is heavily productive. Fruits large, smooth, globular, solid, with thick walls and cross-sections; color light scarlet. Highly valuable for market garden use and shipping. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb \$1.00.

RUTGERS

It has thick outer and inner walls of solid meat, and therefore very small seed cavities and little seeds. It is globe-shaped, scarlet-red color. It ripens first in the center of the fruit, so that when red on the outside the tomatoes are ripe all through. Fine for canning or juice. Pkt. 10c; oz. 50c; $\frac{1}{4}$ lb \$1.25.

GROUND CHERRY OR HUSK TOMATO

Grows to great perfection under ordinary culture, yielding abundantly; very much prized for preserving. It should be in every garden. Pkt. 5c; oz. 60c.

RED HEAD

(Quite similar to Chalks Early Jewel.) Fruits bright red, large, smooth, nearly globe shape, very meaty and have small seed cavities. Vines of medium growth and quite open. Postpaid, pkt. 5c; oz. 40c; $\frac{1}{4}$ lb \$1.00; 1 lb \$3.75.

TURNIPS

CULTURE—For early use sow the small sorts as soon as the ground can be worked in the Spring, in drills 14 inches apart. As this seed is very fine, it should be covered but slightly, except in very dry weather. For Fall and Winter use, sow the early kinds during July, August and September.

EXTRA EARLY WHITE MILAN.—The earliest Turnip. Tops very small, distinctly strap-leaved, and growing very erect and compact. Bulbs form earliest of any sort. The clean, white roots are smooth, flat, symmetrical and handsome in appearance. The flesh is white, tender and sweet. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 25c; 1 lb 65c.

EARLY SNOWBALL.—Very early, of medium size, round as a ball and pure white skin and flesh. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 25c; 1 lb 65c.

**OXHEART**

Fruits, large, smooth, purplish pink, almost seedless. Flesh is very thick and delicious. The name is derived from its shape. Pkt. 5c; oz. 50c.

SPECIAL EARLIANA

Of large, uniform size and beautiful red color. Ripens thoroughly all over, the stem end coloring up perfectly. Almost seedless and very solid. A most vigorous grower and heavy bearer, continuing until frost. Succeeds everywhere. Postpaid, pkt. 5c; oz. 40c; $\frac{1}{4}$ lb \$1.00; 1 lb \$3.75.

MARGLOBE

A new variety developed by the United States Department of Agriculture. Very wilt-resistant and is a handsome deep red, globe-shaped tomato of great merit. Fruits are quite large. A very desirable tomato for salad or slicing. Excellent for canning. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb \$1.25; 1 lb \$4.00.

DWARF STONE

Medium size, purplish-pink, nearly round fruit. Plant grows like a tree and sometimes called "Tree Tomato." Stems are short, thick and almost self-supporting. May be grown quite close together where space is limited. Postpaid, pkt. 10c; oz. 50c; $\frac{1}{4}$ lb \$1.50.

CRIMSON CUSHION

A scarlet "sport" from Ponderosa and resembles the original stock except that the color is a brilliant crimson-scarlet. The very large fruits are carried in clusters of 4 to 6. Flesh is very solid and meaty, making it a fine table sort. Postpaid, pkt. 10c; oz. 50c; $\frac{1}{4}$ lb \$1.50.

WHITE EGG

Is perfectly smooth, of a pure, clear white, being a very choice kind for table use; of excellent flavor. Pulls clean from the ground; thin, snow-white skin. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 25c; 1 lb 65c.

EARLY WHITE FLAT DUTCH

One of the very best and most universally grown. Small, erect top, round, flat; flesh white, firm, but tender and sweet. Of quick growth, it is soon ready for the table and keeps well. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 25c; 1 lb 75c.

GOLDEN BALL OR ORANGE JELLY

Undoubtedly one of the most delicate and sweetest yellow-fleshed turnips yet introduced. Not so large size, but firm, hard and most excellent flavor; keeps well and is superior as a table variety. It is extensively used by market gardeners. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 25c; 1 lb 65c.

PURPLE TOP STRAP LEAF

A leading white-fleshed variety, and one of the best either for the family, market garden or field crop. It is medium sized and produces a large crop. The flesh is firm but tender, and of a superior, rich buttery flavor. A good keeper. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 25c; 1 lb 65c.

RUTA BAGA OR SWEDE**IMPROVED AMERICAN PURPLE TOP**

The leading standard variety, being distinct in type, attaining a wonderfully large size; immense yielder. The flesh is very firm, superior in every way, valuable alike for all purposes. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 25c; 1 lb 65c.

PURPLE TOP OR WHITE GLOBE

A large, globe-shaped variety, purple above the ground. It is handsome and of excellent quality; recommended both for family garden and field crop. Postpaid, pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 25c; 1 lb 65c.

CANADIAN GEM OR UNIVERSAL

Roots round, flesh golden-yellow with purple top. Tops small with almost no neck. Hardy. Pkt. 5c; oz. 10c; 1 lb 65c, postpaid.

HERBS—Aromatic, Medicinal and Pot

ANISE—An annual cultivated for its seeds and its leaves, which have a fragrant, agreeable scent, and a pleasant taste.....	Pkt. 5c
BALM—A hardy perennial of aromatic taste and a grateful, fragrant smell.....	Pkt. 10c
CARAWAY—The seeds are used for flavoring.....	Pkt. 5c
CATNIP OR CATMINT—A great favorite among medical herbs.....	Pkt. 10c
CORIANDER—Annual; its tender leaves are sometimes used for soups and salads.....	Pkt. 5c
DILL.....	Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb 30c
HOREHOUND—Perennial; used as a tonic.....	Pkt. 5c
LAVENDER—Perennial; cultivated for its fragrant flowers and aromatic leaves	Pkt. 10c
ROSEMARY—The tops only are used as a medicine.....	Pkt. 5c
SAGE—Perennial; tea made from the leaves is an excellent means of producing sweat.....	Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb 45c
SAVORY—Annual; leaves are dried for culinary purposes.....	Pkt. 5c
SWEET BASIL—Annual, the leaves are used for highly seasoned dishes.....	Pkt. 5c
SWEET FENNELL—Perennial; tea made from the seeds is an excellent remedy in case of colic and stomach complaints.....	Pkt. 5c
SWEET MAJORAM—Biennial; the leaves are used in soups; the seeds in the manufacture of sausage.....	Pkt. 5c
THYME—Perennial. Thyme tea is an excellent remedy for nervous headache....	Pkt. 5c
WORMWOOD—Perennial; used for medicinal purposes. Beneficiary to poultry and should be planted in every poultry yard.....	Pkt. 5c

FLOWER SEEDS—(Flower Seeds All Postpaid)

Space does not permit us to list all flowers which we carry in stock. Write for varieties and prices.

ANNUAL AND PERENNIAL FLOWER SEEDS

ASTERS.—Annual. Asters are easy to grow. They prefer rich, well-drained soil, plenty of sunshine and ample moisture. Asters bloom from three to five months after seed is sown, varying according to type and climate. For early blooms sow seed indoors in boxes six weeks before outdoor planting time.

MANY SORTS MIXED.—This very fine mixture embraces all varieties and all colors. Pkt. 5c.

OSTRICH PLUME.—Flowers large with very long loosely curved petals. Height 15 inches. Popular for their beauty and lasting qualities. All colors mixed. Pkt. 10c.

IMPROVED CREGO GIANTS.—Blossoms are large, petals twisted and curled to give beautiful, fluffy appearance. Plants are strong and branching. Height 18 inches to two feet. Colors Azure Blue, Lavender, Purple, Rose, Pink, Shell Pink, and White. Pkt. each separate color 15c. Mixed colors 15c.

ANTIRRHINUMS, SNAPDRAGONS.—Snapdragons are of easiest culture, succeeding in ordinary well-drained garden soil, in full sun or semi-shade. Excellent for color in the garden. Blooms freely until frost. Sow seed outdoors when soil has become quite warm; for earlier blooms sow indoors six weeks before your regular planting time. Best treated as annuals, although they are biennials in sections where mild winters prevail. Separate colors White, Red, Yellow, Pink Pkt. 10c. Mixed colors Pkt. 5c.

AGERATUM.—Summer blooming plants grown from seed. Fluffy blue flowers in heads, does well in semi-shade. Excellent for borders and rockery, about 10 inches high. Pkt. 5c.

ALYSSUM.—Annual. Easily grown, free flowering plants; popular for beds, borders and rockery. Quick growth, in bloom during summer and fall.

Carpet of Snow.—Has white flowers on plants only 3 inches tall. Pkt. 10c.

Little Gem.—Compact plants 4 inches high. Densely covered with large white flowers. Pkt. 5c.

Lilac Queen.—Dwarf, compact growth, 4 inches high. Flowers pure lilac color. Pkt. 10c.

Saxatile Compactum.—Perennial. Sometimes called Basket of Gold. Grows compactly and is covered with golden blossoms in late spring. Pkt. 15c.

AGROSTEMMA. (Rose of Heaven).—Hardy perennial. Showy foliage of silvery gray contrasts well with the vivid blood-red flowers. The blossoms are shaped like single pinks. Pkt. 15c.

ARABIS. (Rock Cress).—*Alpina*, early spring flowering perennial; adapted for edgings and borders. Pure white blossoms. Pkt. 15c.

ANCHUSA (Summer Forget-Me-Not).—Graceful sprays with clusters of small, blue flowers something like Forget-Me-Nots. Stalks and foliage are somewhat rough and hairy. Ornamental both in garden and as cut flowers. Perennial. Three to 5 feet high. Pkt. 15c.

BALSAM. (Lady Slipper).—Annual. Symmetrical bushy plants, 2 to 3 feet tall, with fine double blossoms nestled among the rich, green foliage. Easy to grow. Blooms throughout summer and fall. Though drouth resistant does best in rich, well-drained, but slightly moist soil. All colors mixed. Pkt. 5c.

BACHELORS BUTTON (Cornflower).—Easily grown in any soil. Hardy annual. All colors mixed. Pkt. 5c.

BELLIS, ENGLISH DAISY.—Perennial. Favorites for edgings, low beds, and rock gardens. The leaves form a low rosette. The button-like flowers are composed of numerous rows of tightly packed petals. When established they are profuse bloomers for a long period. Thrive in cool, shady places. Pkt. 15c.

BLUE LACE FLOWER (Didiscus Coeruleus).—Large lace-like, delicate lavender-blue flower heads, 2½ inches across. Blooms all summer. Fine for cutting. One and one-half feet tall. Pkt. 5c.

CARNATION.—Double flowers spicily scented are produced on blue-green stems that are stiff but slender. Carnation is really a tender perennial, but is best to treat it as an annual and plant new seed each year. Mixed colors. Pkt. 10c.

CANDYTUFT—Well-known, dwarf, profuse flowering plants of easy culture. Charming for beds, borders, rockery and cutting. For continuous display make several sowings 2 to 3 weeks apart. Pkt. 5c.

CANARY BIRD VINE.—A graceful, dainty, climber with finely fringed, rich canary yellow flowers, which at a distance appear like tiny canary birds. Prefers semi-shade and fairly moist soil. Ten to 15 feet. Pkt. 10c.

CAMPANULA, CANTERBURY BELLS

Campanula Medium.—One of the grandest of old-time favorites. These beautiful and effective hardy biennials reach a height of three feet and are covered with large bell-shaped flowers during spring and summer. Sow seeds in late spring or fall in seed beds or boxes and later transplant to their permanent location. Single mixed. Pkt. 10c. Double mixed 10c.

Medium Calycanthema. (Cup and Saucer).—Each flower is a large cup-shaped bell surrounded by a calyx similar in color and resembling a saucer. Fine border subjects. Two feet. Mixed colors. Pkt. 15c.

CLARKIA.—Annual. These graceful plants are erect and bushy with attractive light green foliage. They bear quantities of delicately colored double flowers, resembling small carnations set along the stems. Pkt. 5c.

COREOPSIS (Lanceolata Grandiflora).—Hardy perennial. On long graceful stems these plants bear large daisy-like flowers with broad fluted petals. In color they are a rich, glossy chrome yellow. They bloom for a long season, and are fine for cutting. Pkt. 15c.

COLUMBINE (Aquilegia).—Beautiful spring blooming perennials of graceful, airy habits, which makes them very desirable for the border and cutting. They succeed in sun or half-shade and in any fairly rich, well-drained soil.

Long Spurred Hybrids.—Mixed. Pkt. 15c.

Coerulea (Rocky Mountain Blue.)—Violet-blue sepals, white corolla. Fine for rockeries. Pkt. 15c.

COSMOS.—Beautiful summer and fall blooming annual. Four to 6 feet tall. They are decorative in the garden and furnish masses of artistic cut-flowers. Of easiest culture in any well-drained soil.

Double Extra Early Crested.—Crimson or Pink. Pkt. 15c.

Single Mixed.—Pkt. 5c.

CYPRESS VINE.—Annual. Quick-growing climber with delicate, fern-like foliage and masses of beautiful small, star-shaped flowers. Suitable for porches, window boxes and baskets. July until late fall. Ten to 12 feet. Pkt. 10c.

CALENDULA (Pot Marigold).—In most climates this old favorite blooms all summer, if the seed pods are kept off. Thrives in any ordinary well-drained soil. Excellent for cut-flowers. Hardy annuals.

Lemon Queen.—Large blossoms of clear lemon yellow. Pkt. 10c.

Orange King.—Magnificent flowers of deep orange. Pkt. 10c.

Mixed Colors.—Pkt. 5c.

CELOSIA OR COCKSCOMB.—Hardy annuals. An odd and picturesque class of plants having colored foliage and innumerable small flowers and seed vessels which form a brilliant colored mass. They retain their brilliant coloring from midsummer until frost.

Celosia Plumosa.—Mixed. Colorful plants with long, silky plumes. Very effective in beds and borders. Pkt. 10c.

Cristata Cockscomb Empress.—Large crimson combs, rich bronze foliage. Pkt. 10c.

Childsii Chinese Woolflower.—Upon the many branches of this gay plant are borne vivid crimson flower clusters like balls of yarn. Pkt. 15c.

Celosia Cristata. (Cockscomb Queen of the Dwarfs).—10 inches. This little plant is almost overpowered by the large ruffled, velvety crest that rises above it on a central crest. Pkt. 10c.

CENTUAREA.—Hardy annual. Well adapted for border planting and also for cut flowers. The blossoms are somewhat thistle-like in form. All varieties are easily grown from seed.

Imperialis (Sweet Sultan).—Flowers have deeply fringed petals closely held in rounded calyxes and are delicately scented. Two and one-half feet. Mixed colors. Pkt. 10c.

Sauveolens (Yellow Sweet Sultan).—Rich pure yellow flowers. Very showy. Pkt. 10c.

Gymnocarpa (White Leaved Dusty Miller).—Leaves silvery gray and deeply cut. Attractive yellow thistle-like blossoms. Pkt. 10c.

COBAEA SCANDENS.—This climber of rapid growth, has deep green foliage and large bell shaped flowers. The blossoms are green at first, later changing to a deep violet blue. The vine clings by means of spiral tendrils. Pkt. 10c.

DAHLIAS.—From seed. There is no more fascinating flowers to raise from seed than the Dahlia, for the results are a series of surprises.

Double Mixed.—Pkt. 25c.

Single Mixed.—Pkt. 25c.

DELPHINIUM. Perennial.

Belladonna.—Single flowers of an exquisite shade of turquoise blue. 3 to 4 feet tall. Pkt. 15c.

Gold Medal Hybrids.—Large single, semi-double and double flowers closely set on tall spikes. 3 to 4 feet tall. Many colors. Pkt. 10c.

Album.—White Delphinium. Pkt. 15c.

DIANTHUS (Pinks).

Double Mixed.—Pkt. 5c.

Plumarius.—Single mixed. Large single fringed flowers in many showy colors and markings. 18 inches. Pkt. 15c.

Plumarius FL PL.—Double and semi-double blooms with spicy fragrance. Perennial. Pkt. 15c.

Plumarius Semperflorens.—(Ever-blooming Hardy Garden Pink). Very beautiful sweet scented, single, semi-double and double flowers in great diversity of colors. Pkt. 15c.

FOUR O'CLOCK.—(Marvel of Peru.) Annual. Suitable for a hedge or as a low screen along a fence. The green of the leaves is relieved by a succession of brilliant buds and salver-shaped flowers in a fine range of colors. Mixed colors. Pkt. 5c.

DIGITALIS.—(Foxglove.) Hardy perennial. Has the quaint charm of an old-fashioned garden. Long spikes that are crowded with large thimble-shaped blossoms beautifully spotted. Mixed colors. Pkt. 15c.

GYPSOPHILIA.—(Baby Breath.) These light airy plants have little foliage but produce a very lovely effect in the garden. Unexcelled in their ability to add much charm to bouquets. Easily grown from seed.

Elagans Carmine.—Annual. Pink. Pkt. 10c.

White Annual.—Pkt. 5c.

Paniculata FL PL.—Perennial. Single white. Pkt. 15c.

GAILLARDIA.—Perennial. Striking as border plants or cut flowers, colors yellow, crimson and orange.

Kermesina Splenders.—Pkt. 15c.

GEUM.—Hardy perennial. Flowers like little double roses, are gracefully poised on long stems over a thick rosette of strawberry-like leaves. Double scarlet. Pkt. 15c.

HIBISCUS.—(Mallow) Hardy perennial. Robust growth, luxuriant foliage, and gorgeous saucer-shaped flowers characterize this hardy large bunching plant. Showy blossoms, 4 to 6 inches in diameter are produced from August to frost. An excellent plant for a tall hedge or background. New giant flowered. Pkt. 15c.

HOLLYHOCK.—Hardy perennial. One of the most popular of hardy garden plants. The beautiful color effects produced by the planting of these flowers, combined with their dignified and stately appearance, render them indispensable for either the old-fashioned garden or the well planned herbaceous border.

Chaters Double Selected Strain.—Mixed. Pkt. 10c.

IPOMOEA.—(Morning Glory.) Annual. Climbers of rapid growth, with beautiful and varied flowers.

Heavenly Blue.—Blossoms clear sky blue with cream colored throats. Pkt. 10c.

Setosa.—(Brazilian Morning Glory.) Clusters of blue or purple flowers and each blossom bears a pink star in its center. Pkt. 10c.

Grandiflora.—(Moon Flower.) Flowers large pure white, and sweet scented. Flowers open each evening to bloom until morning. Pkt. 10c.

Imperial Mixed Japanese Morning Glory.—The blossoms attain a large size and appear in a wide range of radiant colors. Pkt. 10c.

KOCHIA.—(Mexican Fire Bush.) A symmetrical bushy, plant fine for borders. Stays bright green until frost turns it a beautiful bronze red. Annual. Pkt. 5c.

LARKSPUR.—Annual. Long floral spikes set off by feathery foliage of soft green. Colors range from pure white thru shades of lavender, pink and deep blue. Blooms all summer. Pkt. 5c.

LATHYRUS.—*Latifolius.* (Perennial Sweet Pea.) This climber has a sturdy vine with pea-like foliage and bears waxy flowers, also pea-shaped, in large clusters. Mixed. Pkt. 10c.

Pearl White.—Pkt. 15c.

Pink Beauty.—Pkt. 15c.

Red.—Pkt. 15c.

LOBELIA.—Annual. Delicate, low-growing plants of the greatest value for borders, rock work and hanging baskets. Height 6 to 8 inches.

Gracilis.—Blue, trailing. Beautiful in baskets. Pkt. 10c.

Crystal Palace Compacta.—Dwarf flowers rich, bright blue. Excellent for bedding. Pkt. 15c.

LUPINS.—The foliage of all varieties of Lupin is in the form of many lance-like rays about a common center. Pea-shaped blossoms are compactly placed on upright tapering spikes. The plants prefer a semi-shaded spot, and should be sown where they are to remain.

Annual Lupin.—Mixed colors. Pkt. 5c.

Perennial Lupin or Lupine.—Mixed colors. Pkt. 15c.

MARIGOLDS.—Hardy annual. Tall marigolds give charm to the border, while the dwarfs are valuable for bedding and make ideal edging plants.

African.—Two and one-half feet tall. Large double blossoms, orange and lemon shades. Pkt. 5c.

French.—Dwarf in growth. Covered with hundreds of small bright flowers. Pkt. 5c.

MIGNONETTE.—Hardy annual. A delicious scented little flower with graceful foliage of dark green, and spikes of unassuming blossoms very useful in combinations with flowers that lack fragrance. Pkt. 5c.

MORNING GLORY.—One of the most free flowering and rapid growing climbers. Trumpet shaped blossoms in many clear colors. Annual. Pkt. 5c.

NASTURTIUMS.—Few garden annuals respond with as little care as the nasturtium. It starts blooming early and continues throughout the summer months. Brilliant shades of yellow, orange and red.

Dwarf Varieties Mixed.—Pkt. 5c., oz. 10c.

Tall Varieties Mixed.—Pkt. 5c, oz. 10c.

Golden Gleam.—Double golden flowers. Sweet scented. Pkt. 5c, oz. 15c.

Scarlet Gleam.—This flower is the sister of the Golden Gleam, only in color it is a brilliant scarlet. Pkt. 5c, oz. 15c.

Gleam Hybrids.—Semi-double flowers in hues of salmon, rose, yellow, red and primrose. Some blossoms are single. Pkt. 5c, oz. 15c.

PANSY.—When the bright hues of the tulips and daffodils have faded, the rich, deep and varied shades of the pansies provide a welcome change in the flower beds.

Giant Fancy Mixed.—Pkt. 10c.

All Colors Mixed.—Pkt. 5c.

PENSTEMON.—(Beard Tongue.) Perennial. The plants produce numerous upright stalks, with little tendency to become ragged in appearance; they possess shiny green leaves and bear large spikes of gayly colored tubular flowers. A wide range of colors. Pkt. 10c.

PHLOX DRUMMONDII.—Annual. A valuable and showy annual highly esteemed for bedding, for massing and for borders. The plants grow about 1 foot high, thrive in practically any soil if given a sunny location and bloom the entire season. The plants bear many clusters of large five-petaled flowers, in many colors. Pkt. 5c.

PETUNIA.—The petunia is peerless among annuals for effective summer bedding or window boxes. It is of easy culture, early to blossom and continues all summer until frost. No other flower produces a greater diversity of color or retains its freshness for a longer period.

All Colors Mixed.—Pkt. 5c.

Rosy Morn.—Pkt. 10c.

Balcony Blue.—Pkt. 25c.

Balcony Rose.—Pkt. 25c.

Giants of California.—Pkt. 25c.

Large Flowering Ruffled.—Pkt. 25c.

POPPY.—Every child and every grown-up knows and loves poppies. What a glorious riot of color they bring.

Shirley.—Known as the Flanders Field Poppy of the World War. Slender hairy stems, and silky petaled blossoms. Annual. 18 inches. Pkt. 10c.

Double Mixed.—Pkt. 5c.

Double Peony Flowered Mixture—Pkt. 5c

Eschscholtzia or California Poppy.—Pkt. 5c.

Fringed Yellow Eschscholtzia.—Pkt. 10c.

Iceland Poppy.—Perennial. Similar to the annual Shirley Poppy, but in addition to the white, red and pink shades of the latter, the Iceland Poppy is often a fine yellow-orange color. Pkt. 15c.

Orientale.—Hardy perennial. These are the royal members of the poppy family. They are majestic in all their characteristics, have magnificent foliage, sturdy stems, huge cup-shaped flowers with crinkled petals.

Red.—Glowing scarlet with bases of petals bluish black. Pkt. 15c.

Hybrids.—A splendid collection mostly red, with some white, rose, lavender, orange, and crimson. Pkt. 15c.

PORTULACA.—(Moss Rose.) Annual. Brilliant hardy annual, of easy culture; excellent for massing in beds, edging or rock work. Flowers of the brightest colors. 6 inches. Single mixed. Pkt. 10c.

PYRETHRUM.—Perennial. (Painted Daisy.) Plants are erect growing, consisting of upright slender stalks adorned with fern-like leaves and carrying fine terminal blossoms of various color resembling daisies. Pkt. 15c.

RICINUS.—(Castor Bean.) Ornamental plants of stately growth and picturesque foliage, with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds. Pkt. 15c, oz. 20c.

SALVIA.—(Scarlet Sage.) Unrivalled for its dazzling color. The dense dark green foliage forms a fine background for the countless spikes of tubular florets. Although Salvias are perennial and will live on in a mild climate, they should be treated as annuals and will bloom readily the first season if started early indoors. Pkt. 10c.

SALPIGLOSSIS.—(Painted Tongue.) Annual. For delicate grace, richness of color, and velvety texture, the regal Salpiglossis has practically no equal. From a low base of leaves rise slender wiry stalks which bear one or more large lily-white flowers in a magnificent range of colors. Mixed. Pkt. 10c.

SCABIOSA.—(Pincushion Flower.) These beautiful hardy annuals are in great demand. They grow about 2½ feet high and bloom from early in July without interruption until cut down by the frost. The various shades are very charming. Mixed. Pkt. 5c.

Scabiosa Caucasica.—Perennial. Fringed and ruffled, shades of blue from lavender to dark blue. Very large flowers. Pkt. 15c.

STOCKS.—Half-hardy annuals. Popular for bedding, edging, pot culture and cut flowers. It has velvety light green or lustrous bright green foliage and bears spikes of double rosette-like blossoms on fine stems. Very fragrant. Mixed colors. Pkt. 10c.

Evening Scented Stock.—Night blooming stock, small lavender flowers, but so fragrant that a few plants will scent a whole yard in the evening. Pkt. 5c.

STRAWFLOWER.—(Helichrysum.) Annual. The finest of all everlastings for the home garden. They are very handsome when growing in the open and make unusually fine winter bouquets if cut when partially opened and dried slowly in a cool place, heads downward to keep stems straight. They come in a wide range of brilliant and soft colors. Pkt. 10c.

SWEET PEAS.—Sweet peas are relatively hardy. They may be planted very early in spring or late in the fall. They do best in well fertilized soil, and they need considerable watering on warm days when evaporation is likely to be high. As soon as the vines are four inches tall, they need support. It is also of great importance to give the plants plenty of room, thinning them to not less than six inches apart.

Spencer Gold Medal Mixture.—An unsurpassed mixture of all colors. The vines are strong, healthy and vigorous in growth and produce a wonderful profusion of flowers, with long, strong stems. Pkt. 5c, oz. 15c, ¼ lb 50c, 1 lb \$1.50.

What Joy.—Primrose shading to cream.

Olympia.—Royal purple, deep and rich.

Reflection.—Clear blue.

Mrs. A. Searles.—Rich cerise, bordering on soft oriental red.

Magnet.—Rich cream pink.

Pinkie.—Rich rose pink.

Avalanche.—Glistening pure white.

Sybil Henshaw.—Glowing blood-red.

Above varieties of sweet peas pkt. 5c; oz. 20c, ¼ lb 70c.

SWEET WILLIAMS.—Perennial. These hardy plants form erect tufts and bear handsome broad clusters of blossoms like little pinks with delicately fringed petals in rich and varied colors. Mixed. Pkt. 10c.

VERBENA.—Annual. These popular dwarf creeping plants produce dark green foliage enlivened by many fine clusters of star-shaped blossoms. The colors are refreshing in their brilliancy. Mixed colors. Pkt. 5c.

WILD CUCUMBER.—Annual. The quickest growing of all climbers. Not effected by heat, but retains its fresh and lovely green color all summer. Does not become infested by insects. Sow in fall, or file through outer shell of seed if sown in spring. Pkt. 5c, oz. 20c.

BULBS

All the roots offered in this catalogue will be supplied in dormant field-grown roots or in strong divisions of such roots of proper planting size.

DAHLIAS

Postpaid, 30c each

Judge Marean—Salmon pink, shaded lighter in center, decorative.

Jersey Beauty—Salmon pink, decorative.

Our Country—Purple with white tip on petals.

Thomas A. Edison—Dark purple.

Jane Cowle—Orange-buff.

Wizard of Oz—Amber, pink.

Marmion—Large yellow.

Mrs. Carl Salback—Pink shade to white.

Jersey Beacon—Chinese scarlet.

Grizzley—Dark red.

Rodman Wanamaker—Light salmon, yellow center.

Patrick O'Mara—Orange, decorative.

Millionaire—Lavender, decorative.

Ethel F. T. Smith—White shaded to yellow, cactus.

Kentucky Colonel—Red.

Elite Glory—Light pink.

Fort Monmouth—Orange.

Washington City—White, cactus hybrid.

Insulinda—Orange shaded to cream, cactus Hybrid.

GLADIOLI

All Gladioli can be furnished in straight colors or mixed at dozen rate, postage prepaid. No. 1 bulbs, each 4c; doz. 40c. No. 2 bulbs, each 3c; doz. 30c.

Mrs. Frank Pendleton—Salmon pink, red throat.

Le Marshal Foch—Light pink.

Prince of Wales—Salmon pink, cream throat.

Dr. Bennett—Best red.

Geraldine Farrar—Dark lavender.

Purple Glory—Purple.

Break o' Day—Coral pink.

W. H. Phipps—LaFrance pink. 60c doz.

Phitzer's Triumph—Red. 60c doz.

ZINNIAS.—Annual. Zinnias are particularly adapted to our hot American summers. They like rich, well-fertilized soil and a moderate amount of water. Zinnias bloom for many weeks.

Giant Double Mixed.—Pkt. 5c, oz. 40c.

Dahlia Flowered Mixed.—Pkt. 10c.

Lilliput, Double Mixed.—A charming dwarf which is excellent for low borders or edgings. The plants are of tidy habit and produce a bounteous supply of very double pompon flowers about 1½ inches across. The colors are bright and well varied. Pkt. 5c, oz. 40c.

Minuet—Lavender. 60c doz.

Blue Danube—Light blue. 60c doz.

Valchenblau—Dark blue. 60c doz.

Bettie Nuthall—Orange. 60c doz.

CANNAS

Dry Roots. Each 15c.

President—Medium red.

Yellow Humbert—Tall, yellow spotted red.

Wyoming—Red foliage, dwarf.

PERENNIAL PLANTS

All perennials are two years old, field grown plants. Postpaid.

Giant Shirley Digitalis—Fox Glove, in mixed colors. Each 15c; 3 for 40c.

Canterbury Bells—Mixed colors. Each 10c; 3 for 25c.

Pyrethrum Daisies—Painted Daisy, mixed colors. Each 15c; 3 for 40c.

Phlox—Red, white and pink. Each 15c; 3 for 30c.

Geum—Double scarlet. Each 15c 3 for 40c.

Hardy Chrysanthemums—Red, yellow, white, bronze, pink. Each 15c; 2 for 25c.

Gypsophilia—Large plants. Each 30c.

Shasta Daisies—Large, white. Each 15c; 3 for 40c.

Oriental Poppies—Pink and crimson. Each 15c; 3 for 40c.

Delphinium—Dark and light blue. Each 15c 3 for 40c.

Bleeding Heart—Large roots. Each 75c.

Anchusa—Large blue flowers. Each 15c; 3 for 40c.

Columbine—Long spurred hybrids. Each 15c; 3 for 40c.

Coral Bells—Pink. Each 15c; 3 for 30c.

Snapdragons—Mixed colors, 1 year old plants. Doz. 30c.

Pansies—Mixed colors. Doz. 50c.

Bellis Daisies—Mixed colors. Doz. 50c.

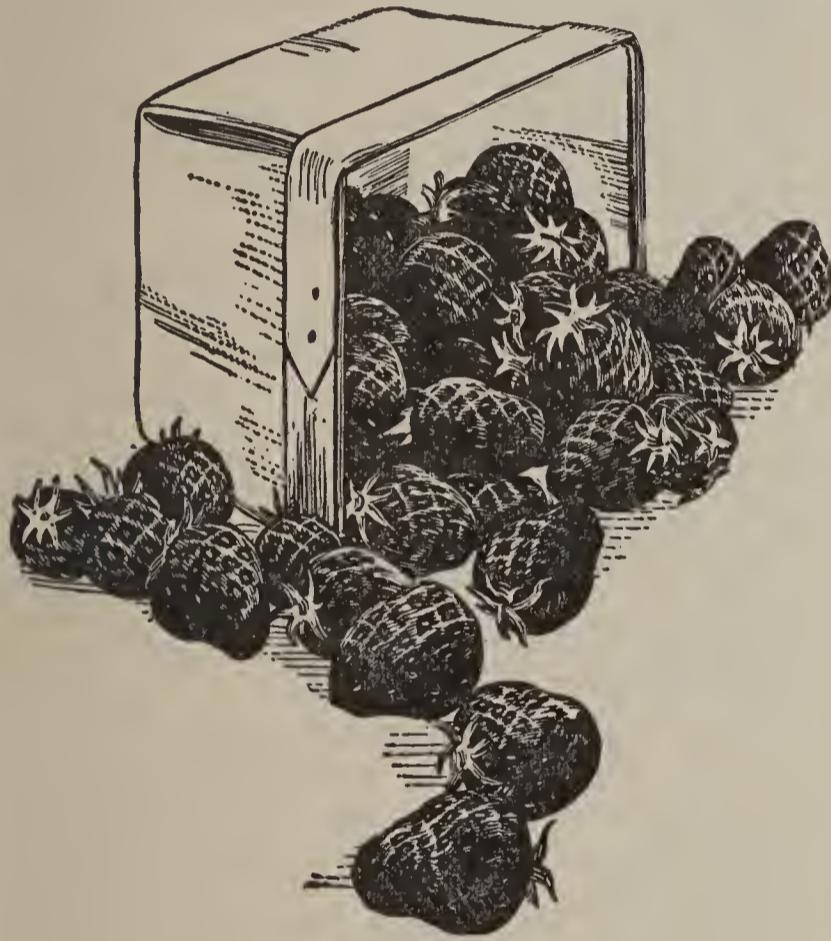
Chinese Lanterns—Each 15c; 3 for 40c.

VEGETABLE PLANTS

We are prepared to furnish plants, in any quantity, of the varieties described below, all Idaho grown, especially for us. The plants are grown from selected seed and you can depend on the plants being true to name. We exercise great care to produce strong, vigorous plants and see that they are packed properly for transportation. We advise sending by express, and the following prices DO NOT INCLUDE POSTAGE. If wanted by mail, add 8c per dozen, or 25c per 100, postage. Write for quantity prices.

TRANSPLANTED PLANTS

EARLY CABBAGE—Jersey Wakefield, Golden Acre.....	Doz. 20c; 100 \$1.25
TOMATOES—Earliana, Chalk's Early Jewel, John Baer, Marglobe, Red Head, Beefsteak, Burbank.....	Doz. 25c; 100 \$1.50
CAULIFLOWER—Early Snowball	Doz. 25c; 100 \$1.25
PEPPERS—California Wonder, Bull Nose.....	Doz. 25c; 100 \$1.50
EGG PLANT—New York Improved.....	Doz. 25c; 100 \$1.50
EARLY CELERY—White Plume, Golden Self Blanching.....	Doz. 20c; 100 \$1.25



FROM SEED BED

LATE CELERY (from seed bed)—Giant Pascal, Golden Self Blanching, Doz. 20c; 100 \$1.25.

LATE CABBAGE, Doz. 20c; 100 \$1.00.

Write for Quantity Prices

MASTODON EVERBEARING STRAWBERRY PLANTS

The largest fruiting of the everbearing sorts, yet notwithstanding its size it is also the most prolific, bearing continuously from June until frost, fruit firm and of excellent flavor. 100, \$1.10; per M, \$8.00, postpaid.

ANNUALS

Glen Mary, mid-season; New Oregon mid-season; Hood River, early. All plants from new planting, well rooted and strong. Plants state inspected. 100, \$1.00; per M, \$8.00.

Farm and Field Seed Department

Prices Subject to Change Without Notice

MINNESOTA NO. 13

The commanding points of excellence which place Minnesota No. 13 Corn at the head of all yellow dent varieties for northern planting are its earliness, enormous yield and adaptability to a great variety of soils and climates. Matures in 90 to 100 days. 1 lb 10c; 100 lb \$5.00.

IDAHO YELLOW DENT

Our Idaho Yellow Dent is particularly adapted to this climate. Our seed is pure and grown especially for us. We recommend growing this corn for silage, as the stalks grow to a height of from 10 to 12 feet, producing solid ears of corn that will average 9 inches in length; 8 to 10 pounds

of this corn will plant one acre. Write for quantity price. 1 lb 10c; 10 lb 75c; 100 lb \$6.00.

WHITE PEARL (Dent)

We have had splendid success with this new variety of white Dent corn. Stalks growing from 8 to 12 feet. Ears running from 10 to 12 inches long. A splendid variety for ensilage. Has fully matured for the past four years. This corn is worthy of a trial. Write for quantity price. 1 lb 10c; 10 lb 75c.

POPCORN

Popcorn has not been considered an important crop until recently. It is now being developed into one of the best paying small acreage crops, and is easily grown.

PEARL WHITE POPCORN

This variety has a very large grain, and when popped has a large, pure white kernel. 1 lb 15c; 10 lb \$1.25.

SOUTH AMERICAN POPCORN

A very large, creamy white kernel when popped, and yielding almost twice as much as the rice varieties. 1 lb 20c, postpaid.

WHEAT, OATS, RYE, BARLEY, CLOVER**FEDERATED—Spring Wheat**

It is a hard flint wheat. The government test proves it to be high in gluten and high in yield of flour, making it one of the best milling wheats. Beardless and a heavy producer, and should be an excellent variety for the northwest. We highly recommend it. 100 lb \$2.50.

COMMON RYE

Planted extensively in both Spring and Fall. Write for quantity prices.

IDAMINE

These oats are very handsome and heavy white oats of great productiveness, and have become very popular. They do very well on ordinary soil. On rich, heavy land they grow so rank, the straw not being large in proportion to their weight, that they are inclined to lodge. Large yields have been reported for this oats. 100 lb \$2.50. Write for quantity prices.

TREBI BARLEY

One of the heaviest producers and surest crops for this section of the country. 100 lb \$2.50.

MAMMOTH RUSSIAN SUNFLOWER

The largest and most productive variety. It makes one of the best foods for poultry; a great egg producer. Postpaid, 1 lb 20c; 5 lb 90c; 10 lb \$1.75. Write for quantity prices.

WHITE HULLESS BARLEY

It is not a malting variety, but for feeding purposes there is no barley raised which can compare with it in earliness, yield and quality. While it has sufficient hull to hold it in the head, these hulls are readily separated in threshing. The absence of beards makes it safe to feed to all kinds of stock. Its earliness is a characteristic which is especially desirable. It will mature in from 60 to 90 days, according to soil and locality. 100 lb \$3.00.

WHITE DUTCH CLOVER**Trifolium Repense**

Excellent for pasture, and when mixed with Kentucky Blue Grass makes the finest and most nutritious food for sheep and cows. Used universally for lawns in most of the United States. Sow for pasture 5 to 8 lbs. to the acre. 1 lb fancy 50c. Write for quantity prices.

JAP HULLESS

Short ears and small grains which pop to a good size. The corn popped is deliciously tender, and when you have once eaten this corn you will not want to go back to other varieties again.

This corn always brings a premium on the market. Price, 1 lb 20c, postpaid.

TIMOTHY

As a crop for hay, timothy is probably unsurpassed by any other grass. It is greatly relished by all kinds of stock, especially horses. It yields more nutritive matter than any other grass or forage plant. It is not suited for a permanent pasture, as it will in course of a few years run out. It is, however, well adapted to early Spring grazing, as it starts up quickly in the Spring, and in favorable Fall weather can be pastured in the Autumn as well. 1 lb 15c; 100 lb \$9.00.

LADINO WHITE CLOVER

Also known as Giant White or Italian White. Is a very large form of clover, usually making a growth of 8 to 12 inches as compared to the usual 3 or 4-inch height. It is a perennial. The stems lie flat on the ground and commonly root at the joints. It is not a deep-rooted plant and consequently can be grown on rather shallow land where well supplied with humus and moisture. Certified seed, 1 lb \$1; Non-Certified Seed, 1 lb 75c.

MEDIUM RED CLOVER

This is regarded as the most valuable of the clover family. It is sometimes called June clover and is a dependable all-round variety for farmers and stockmen. It makes two crops each year. The first is usually cut when it is in blossom for hay; the last crop when it is in blossom for seed, cut for hay, or plowed under to add fertility to the soil. It may be sown either in the Spring or Fall, and if no other grasses are used, at the rate of from 8 to 12 pounds to the acre, according to quality of seed used and condition of the soil. Clover adds greatly to the fertility of the land on which it is grown. It does not exhaust the soil, but enriches it. Write for quantity prices. 1 lb 40c; 100 lb \$38.00.

ALSIKE OR SWEDISH CLOVER

This is one of the hardest varieties known. It is perennial and does not winter kill. It will do better on moist land than any other variety of clover, and is suitable for either hay or pasture. When sown with other grasses it forms a thick undergrowth and greatly increases the yield. It is frequently sown both with Medium Red clover and with Timothy, and the quality of hay thus produced is excellent. 1 lb 35c; 25 lb \$8.00.

WHITE SWEET CLOVER

Every year more farmers are learning the real value of some sweet clover as a dry land pasture and sure hay crop. Sweet clover is much hardier than all other members of the clover and alfalfa family. It is a biennial plant and makes a much better hay crop the second year than the first. 1 lb 20c; 100 lb \$18.50.

YELLOW SWEET CLOVER

The yellow clover does not grow as tall as the white and can be cut near the ground like alfalfa. It makes an excellent hay as the stocks are not too coarse and very fine in texture. It is especially adapted for the higher dry land. Sow 12 to 15 pounds to the acre. 1 lb 20c; 100 lb \$19.00.

CERTIFIED GRIMM ALFALFA Blue Tag

Highly recommended by the government and state experiment stations as being one of the hardiest known strains of alfalfa. Usually there is not enough seed to meet the demand and the price is high. 1 lb 45c; 100 lb \$43.00. Write for quantity prices.

IDAHO GROWN ALFALFA

The extension of alfalfa growing into the regions of limited rainfall has created a demand for alfalfa seed especially adaptable to those conditions. Seed which has been produced from alfalfa grown on dry land and without irrigation is, of course, much preferable for dry land culture to seed produced under irrigated or normal rainfall. Write for quantity prices. 1 lb 35c; 100 lb \$30.00.

FLAX

The greatest value for a reasonable price; uniformly superior quality, carefully selected for high purity and strong germination. 1 lb 20c. Write for quantity prices.

KENTUCKY BLUE GRASS

This makes the best, sweetest and most nutritious pasture for all kinds of stock. It is very hardy and is uninjured by cold or dry weather, hot sun or tramping hoofs. The roots are so thick and stout that they form a tough sod. Blue Grass requires two years to get well started and for that reason is often sown in mixture with other grasses. From 20 to 25 pounds to the acre. 1 lb No. 21 lb seed 35c. Write for quantity prices.

RED TOP (Solid Seed)

A valuable grass for moist, rich soils, where it thrives very luxuriantly. It is a good variety to sow with timothy and clover for meadow and pasture and is more permanent than either of the other two. It should be fed close. If it is allowed to grow up to seed, cattle dislike it. Ten lb to the acre. 1 lb 30c; 100 lb \$25.00.

ORCHARD GRASS

A valuable grass for pasture or hay land. It furnishes the first green grass in the Spring and until in the Fall. When closely cropped it grows up very quickly and is ready for grazing again in 10 or 12 days. It will stand drought and is hardy. It grows in tufts, and is therefore best sown with Red Clover, rye grass, etc. It is well suited for shady places. Sow 22 pounds to the acre. 1 lb 30c; 100 lb \$26.00.

MEADOW FESCUE, ENGLISH GRASS

Especially suited for permanent pasture and is also fine for hay. Grows 2 to 3 feet high but not in tufts like Orchard Grass. The hay is very nutritious and cattle thrive on it whether it is dry or green. Succeeds even in poor soil, and as the roots penetrate deep, from 12 to 15 inches, it takes extremely dry weather to affect it. As a fertilizer it has valuable properties. It will endure severe freezing and its use is becoming more widespread each year. 24 pounds sown to the acre. 1 lb 25c; 100 lb \$20.00.

SUDAN GRASS

An annual plant of the sorghum family that has been successfully used for hay and silage. It is drought resisting and produces a good yield of fine stemmed feed. Write for quantity prices. 100 lb \$8.00.

BROMUS INERMIS

Drought defying, frost resisting. Yields enormous crops of splendid hay and affords early and abundant pasturage. It starts from one to three weeks earlier in the Spring than native prairie grass and it keeps green in the Autumn longer than any of the useful grasses grown in the west. No amount of cold seems to be able to kill it. It bears up well under hot Summer suns. It will grow under conditions that are very dry, and it can also stand being covered with water, not deep, of course, for one or two weeks in the early Spring.

This grass may be sown at any time of the year when the ground is bare, but the best season is in the Spring, and with or without a nurse crop. Fifteen pounds of good Bromus Inermis an acre is sufficient. 1 lb 30c; 100 lb \$28.00. Write for quantity prices.

MANITOBA OR HOG MILLET

The seed is very rich and thus especially valuable as a hog feed. A very much prized peculiarity of this millet is that the seed ripens while the stem is yet green; thus if cut promptly can be threshed for the seed, while the hay, after being threshed, will make excellent fodder. Sow same as other millet. 1 lb 10c.; 100 lb \$5.00.

EARLY FORTUNE MILLET

A most promising variety, of which astonishing yields are reported. It is very early, and is claimed to be rust proof, and that cinch bugs will not eat the plant. The seed is very beautiful and distinguished in appearance and is of a beautiful red color. The seed is two or three times the size of German Millet. This variety heads in from 25 to 35 days. It gives a large yield both of seed and fodder. It can be fed to horses and other stock without injury, even when cut so late that the seed has formed. The seeds are smooth, the heads are branching and in other respects this variety is similar to Hog Millet except for the color of the seed. 1 lb 10c; 12 lb \$1.00.

GERMAN MILLET**True Southern Grown Seed**

Millet seed produced in the North, even from southern seed, becomes what we call Common Millet. Not only does the plant change in character, becoming coarser and much more dwarf, but the seed itself shows a change, and is readily distinguished by those experienced in handling.

German Millet is very sweet, palatable, and when fed to dairy cows produces a large amount of milk. On good, rich soil it grows 4 to 5 feet high. It is very tender if cut at the right stage, which is when it is in full bloom. About three-fourths of a bushel of seed is sown to the acre. A good yield is from three to five tons of hay to the acre. 1 lb 10c; 100 lb \$7.50.

CANADIAN FIELD PEAS, GREEN

Height of vine 3 to 4 feet. Of the same general character as Canada Yellow Peas. Used for the same purpose, but the seed is green instead of yellow. 1 lb 10c. Write for quantity prices.

DWARF ESSEX RAPE

It is an annual, bearing a close resemblance in leaf and stalk to the Ruta Baga, but both leaves and stalks are more numerous in the Rape plant, and of a taller habit of growth. It is a pasture plant which may be eaten off by any kind of livestock, but it is pre-eminently fitted to furnish pasture for sheep, cattle and swine.

A good crop will furnish at least 12 tons of green food an acre. 1 lb 20c; 25 lb \$3.00.

EARLY AMBER CANE

Furnishes a large yield of most nutritive forage, which can be fed either green or cured and will yield two or three cuttings a year, stooling out thicker each time it is cut. It grows 10 to 12 feet high. Sow broadcast for forage at the rate of 60 pounds per acre. When sown in drills, sow at the rate of 10 pounds per acre in drills $3\frac{1}{2}$ to 3 feet apart. 1 lb 10c; 100 lb \$7.00.

PEANUTS

The peanut is grown in this locality and does well if properly taken care of. Should be planted about April 15th and may be in hills about 3 feet apart each way. Seed may be hulled or in pod. Per lb 30c, postpaid.

LADAK ALFALFA

Ladak Alfalfa, resistant to alfalfa wilt, more winter hardy than Grimm, and equal to or above all other varieties in hay yield at the majority of experiment stations in northern and western states. 1 lb 75c. Write for quantity prices.

CRESTED WHEAT GRASS

Crested wheat grass is a hardy, drouth resistant perennial bunch grass, native to the cold, dry plains of Russia and Siberia. Typical plants have a dense dark green foliage during the early part of the season, stems are fine and make hay of excellent quality. Under favorable conditions yields over a long period of years. Crested wheat grass being tender in seedling stage requires a firm seed bed, well supplied with moisture, and free from weeds. Spring seeding best in most localities. 1 lb 70c. Write for quantity prices.

LAWN GRASS**BLUE GRASS AND WHITE CLOVER MIXTURE**

Blue grass and white clover form the base of all lawn grass mixtures, and make a perfect lawn mixed equal parts. We carry to two mixed equal parts from the best grades of both. 1 lb 45c; 10 lb \$4.00.

CENTRAL COAL & SEED CO. LAWN MIXTURE

Blended from the choicest grass seed. Producing a thick, velvety turf that stays green from early Spring until late Fall. Sow one pound to three hundred square feet. 1 lb 45c.

POA TRIVIALIS

An ideal shade grass where it can have enough moisture. This grass is a perennial closely related to Kentucky blue grass, but somewhat finer and softer. It has splendid apple-green color and is a creeper. Sow in Spring or Fall at rate of 1 pound to 300 square feet. 1 lb 50c; 5 lb \$2.25.

SHADY PLACE MIXTURE

On almost every lawn there are shady places where difficulty is experienced in getting grass to grow. These bare spots are very unsightly and disfigure the lawn. In such places proper seeding may be all that is required. In this mixture we have combined fine, dwarf growing, evergreen varieties which do well in sheltered or shaded spots. 1 lb 50c; 5 lb \$2.25.

RED TOP GRASS

Fancy recleaned solid seed; in popularity for lawn use it is a close second to Kentucky blue grass. 1 lb 40c; 5 lb \$1.75.

WHITE OR DUTCH CLOVER

A low close growing clover, round white heads, very fragrant. Very desirable for beautifying the lawn. It will stand close cutting and very rapidly throws up an abundance of leaves and blossoms. It is usually better to sow with other grasses. Does well on most any soil. 1 lb 50c; 5 lb \$2.25.

The following irrigated pasture mixtures have given the best results at the Aberdeen Experiment Farm:

1. WITHOUT LEGUME:

Orchard Grass	6 Pounds
Smooth Brome Grass.....	4 Pounds
Tall or Meadow Fescue.....	8 Pounds

2. WITH LEGUME:

Orchard Grass	6 Pounds
Smooth Brome Grass.....	4 Pounds
Tall or Meadow Fescue.....	8 Pounds
Alsike	2 Pounds
or	
Red Clover	4 Pounds

These should be seeded early at the rate of 25 pounds of mixture per acre. The above mixture 1 lb 30c; 100 lb \$25.00.

Disinfectant and Spray Material

CERESAN**A Super Dust Disinfectant**

Ceresan is the ethyl mercury chloride dust disinfectant that has been developed for the effective control of certain, seed-borne diseases of wheat, oats, barley, rye, millet and sorghum, such as kaffir corn and milo maize.

As a finely ground dust which readily adheres to all seed grains, Ceresan is easily and quickly applied. Ceresan is packed in air-tight containers and, if kept dry, is good until used.

Seed grains treated with Ceresan are covered with a protective coating of disinfectant which is effective immediately in destroying seed-borne fungi and bacteria and in protecting the seed after planting against rotting caused by certain soil-infesting organisms.

Use one-half ounce of Ceresan to each bushel of wheat, rye, millet and sorghum, and use 3 ounces to each bushel of oats and barley.

1-lb tin	\$.70
5-lb tin	3.00

KENTUCKY BLUE GRASS

The mainstay for lawn making; our stock is extra fancy cleaned heavy seed. The purest and cleanest obtainable. 1 lb 40c; 10 lb \$3.50.

ASTORIA CREEPING BENT GRASS

Distinctive on account of its compact, creeping rooting stems. Of rapid growth and spreading habit, forming a strong, durable turf. Good for lawns and putting greens because of its fine texture. 1 lb 80c; 5 lb \$3.75.

The following irrigated pasture mixtures have given the best results at the Aberdeen Experiment Farm:

1. WITHOUT LEGUME:

Orchard Grass	6 Pounds
Smooth Brome Grass.....	4 Pounds
Tall or Meadow Fescue.....	8 Pounds

2. WITH LEGUME:

Orchard Grass	6 Pounds
Smooth Brome Grass.....	4 Pounds
Tall or Meadow Fescue.....	8 Pounds
Alsike	2 Pounds
or	
Red Clover	4 Pounds

BLUE VITROL

Used for treating smut on grain, and also is used for treating hoof-rot in sheep. 1 lb 15c; 5 lb 60c; 100 lb \$10.00. Not mailable.

FORMALDEHYDE

For the prevention of smut on grain; it is easy to apply. One bottle, diluted with 40 to 50 gallons of water is sufficient to treat thoroughly 30 bushels of wheat or barley for smut; 40 bushels of oats for smut; or 60 bushels of flax for wilt. 1 pint 50c; 1 quart \$1.00. Not mailable.

CARBO

Metallic copper content, 53% to 55%. Ready to use, simply dust on the grain. A superior high quality product for dry treating seed grain for bunt or stinking smut. As a preventative of bunt (stinking smut) in seed wheat use in the proportion of two to three ounces to one bushel. 53% copper, 10 lb \$3.00; 18% copper, 5 lb \$1.00.

ARSENATE OF LEAD

(Dry.) For dusting and spraying. Solves the problem of controlling practically all leaf-eating insects in an efficient manner. 1/2 lb 15c; 1 lb 25c; 4 lb 55c.

SPRAYS**EVERGREEN**

A non-poisonous insecticide that is as equally effective in both the flower and vegetable garden. Destroys a great number of both chewing and sucking insects without danger of burning the plants. 1-oz. bottle 35c; 6-oz. bottle \$1.00; pint \$2.00.

BLACK LEAF 40**40 Per Cent Nicotine**

Destroys aphis, thrips, leaf hoppers on all trees, bush and vine fruits, vegetables, field crops, pear psylla and similar soft-shelled sucking insects, all without injury to foliage. Combines readily with other sprays. 1 oz., 6 gals. spray, 35c; 5 oz. \$1; 16 oz. \$2.00.

LIME SULPHUR

For dormant spraying in the Fall or early Spring against scale, peach blight, leaf curl and twig borer, uses 9 to 11 tablespoons to one gallon water.

For Summer spraying against scab, scot and blotch, red spider and mites, use from 2½ to 3 level tablespoons to 1 gallon of water. 1-lb can, 35c. Not mailable.

BORDEAUX MIXTURE

Prevents large losses caused by blight, rot, mildew, scab, anthracnose, and certain other fungus diseases, will stimulate plant growth and greatly increase the harvest. On most trees, shrubs and vegetable plants use 8 level tablespoons to 1 gallon of water. 1 lb 45c; 5 lb \$1.75. Not mailable.

GARDEN VOLCK

The complete contact spray (containing VOLCK, nicotine and spreader) for control of sap-sucking insects including certain scale, aphis, thrips, leafhopper, red spider, cyclamen mite, white fly, mealy-bugs, small caterpillars, etc. It also helps prevent rose mildew. 3½ ozs. 35c; 1 pint \$1.00.

GARDEN TENDUST

A nicotine dust containing four per cent actual nicotine alkaloid or the equivalent of 10 per cent nicotine sulphate 40 per cent. Excellent for killing aphis and thrips. It will repel rose and certain other beetles, squash bug, etc. It does not injure the appearance of open flowers. 6 oz. sifter package, 35c; 5 lb \$1.50.

GARDEN WEED KILLER

The ORTHO weed killer is a powerful arsenical weed killer for keeping paths, roads, tennis courts, etc., clean from weeds. Also used to make poisoned baits for grass hoppers and cutworms and to control termites. 1 pint 50c; 1 quart 75c; 1 gallon \$2.00; 5 gallons \$5.00.

PARIS GREEN

A poisonous insecticide in powder form, for insects which chew. ¼ lb 20c; 1 lb 60c. Not mailable.

GARDEN COLTOX

An insecticide-fungicide for control of flea beetles and other beetles; corn ear worm, tomato worm and other worms and certain fungous diseases. Price, 6 oz. sifter package 35c; 1 lb 75c; 3 lb \$1.50.

FERTILIZER

Quantity and quality yields are essential for profitable growing operations. High quality, complete fertilizers will aid you in securing maximum results. We recommend:

SWIFT'S "RED STEER" FERTILIZERS

Made from best materials, double-mixed, triple tested, insuring uniform plant-food content, excellent mechanical condition and correct availability of plantfoods.

RED STEER 3 10 10

An excellent all purpose fertilizer used extensively for truck crops, orchards, berries, onions, potatoes, etc. Price 100 lb \$2.50.

RED STEER 5 6 8

Should be used where there is need for larger percentage of nitrogen, frequently required on upland soils where no manure has been applied. Price, 100 lb \$2.50.

SULPHATE OF AMMONIA

Sulphate of Ammonia is the most concentrated nitrogenous top-dressing on the market. Guaranteed 25 per cent ammonia, and containing no borax. It is fine and dry and easily spread by hand or by drill. The crop producing power of the ammonia is equal to that of any fertilizer. 10 lb 65c; 100 lb \$3.50.

NITRATE OF SODA

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crops. 1 lb 10c; 10 lb 65c; 100 lb \$4.50.

SULPHUR

For lime-sulphur solution, fertilizing and general purposes. Finely powdered and 100 per cent pure. Use sulphur in connection with your fertilizers and make your soil give you the highest possible returns. It is a first-class fertilizer, fungicide and insecticide. \$4.50 cwt.



"DOGZOFF"

If you are bothered with dogs, cats or rabbits, "Dogzoff" is the spray you need. It is a most efficient animal repellent and one spraying will last from three to four weeks. Not poisonous to plants and will not injure animals. Not offensive to humans. Its use is guaranteed to keep these animals from any place where they are not wanted.

"Dogzoff" is applied with any small insect sprayer and one application usually does the work.

"Dogzoff" will save its cost many times over around the garden and home.

PRICE FOR
SEASON'S SUPPLY **69c** PRE-
PAID

Sheps Plant Spray

NOT A PYRETHRUM PRODUCT



This non-poisonous spray kills and controls most sucking and chewing insect pests, including ants, aphids, thrips, green flies, white flies, mealy bugs, many other bugs, worms and caterpillars. Harmless to humans, birds, animals and pets. Will not burn delicate leaves or flowers. Pleasant to use. More economical. No soap sud solution needed. Simply mix with water.

PRICES POSTPAID				
1½-oz Bot. (makes 3 gals. Spray Sol.)	...	\$.25		
8-oz Can	16 "	"	"	.75
Pint "	32 "	"	"	1.50
Quart "	64 "	"	"	2.25
Gal. "	256 "	"	"	7.50

Bulk Prices On Request

No. 104R

*Oldest and
most Widely Used Inoculator in America*

NITRAGIN

NOW SELLS FOR only 55¢ per 1 bu. size

Alfalfa and Clover

Established in 1898—The Original Legume Inoculator

Expiration Date — High Bacteria Count —
Approved — Tested and Guaranteed

DRASTIC PRICE REDUCTIONS
Lowest in
NITRAGIN History

NITRAGIN INOCULATION PRICES

• When Ordering, **ALWAYS** State Name of Seed •

Culture Group "A"—ALFALFA and SWEET CLOVERS (including Hubam) and Bur Clover.

Culture Group "B"—CLOVERS, MEDIUM RED, Mammoth Red, Alsike, Crimson and White Clover.

½ bu. size **35c** ea.; 1 bu. size **55c** ea.; 2½ bu. size **\$1.20** ea.

Culture Group "L"—All varieties of Lespedeza—Unhulled or Hulled. Unhulled requires only 1 bu. size. Hulled requires 2 bu. size. 1 bu. size **35c** ea.; 2 bu. size **55c** ea.; 5 bu. size **\$1.20** ea.

Culture Group "S"—Soy Beans. All varieties.

Culture Group "E"—PEANUTS, COW PEAS, LIMA BEANS, VELVET BEANS, Kudzu, Crotalaria and Beggar Weed.

1 bu. size **35c** ea.; 2 bu. size **55c** ea.; 5 bu. size **\$1.20** ea.; 10 bu. size **\$1.75** ea.; 25 bu. size **\$3.75** ea.

Culture Group "C"—VETCHES (Hairy, Spring, Wild) AUSTRIAN PEAS, Canadian Field and Garden Peas, Broad Beans, Sweet Peas and Lentils.

Culture Group "D"—Field and Garden BEANS (Navy, Kidney and Scarlet Runner Beans). ½ bu. size **30c** ea.; 1 bu. size **45c** ea.; 1½ bu. size (100 lb. size) **65c**; 5 bu. size **\$1.85** ea.; 12½ bu. size **\$4.25** ea.

NEW GARDEN SIZE

For Garden Peas, Beans, Sweet Peas, Lima Beans, and Lupines. Inoculates any amount up to 4 lbs. seed. Price each.....

10¢

Remember . . .
Legumes NOT Inoculated are "SOIL ROBBERS"
Legumes WELL Inoculated are "SOIL BUILDERS"

New Life for Lawns and Gardens



100 lb bag.....	\$3.95
50 lb bag.....	2.25
25 lb bag.....	1.50
10 lb bag.....	.85
5 lb bag.....	.45
1 lb bag.....	.10

There is a definite reason for most gardening failures—soil hunger! Without food, no plant life can thrive.

PLANTONE, the scientifically prepared plant food, supplies all necessary elements in the right proportion. It costs less, goes farther.

BECAUSE
PLANTONE
Contains More Available
PLANT FOOD



A Product of the Anaconda Copper Mining Company



Germaco HOTKAPS—"individual hothouses for every plant"—are made of waxed paper in the form of a cone which completely covers the plants—the only way to fully protect them from frost. HOTKAPS also protect against rain, wind, ground crusting and insects—your assurance of faster growing, hardier plants, with larger yields and greater profits, because you market earlier.

HOTKAPS are inexpensive to use. One man can "set" over 2500 of them per day. Write us now about this money-making crop necessity, or simply order your season's supply now.

Prices: 100 lots, \$1.35; 1,000 lots, \$9.75; 5000 lots, \$9.65 per M; 250 Trial Package, including Garden Setter with Tamper, \$3.65; Germaco Hotkap Steel Setter with Tamper, \$1.50, postage extra.

Weights: 1000 package HOTKAPS, 28 lbs.; 250 package, 9 lbs.; 100 package, 5 lbs.; Steel Hotkap Setter, 3 lbs.

Earlier to Market
FOR HIGHER PRICES WITH
Germaco
Hotkaps

BIRD CAGES

Square and round, all steel, durably constructed, attractively finished, spot-welded cages, with stands to match. Colors green, gold, blue, black and ivory, two-tone enameled finish.

No. 500, size 9x12x14½ inches high, with drawer pan, and removable false bottom. Price \$1.75.

No. 200, size 10x13x14 inches high, with drawer pan and removable false bottom. Price \$2.35.

No. 150, stands 64 inches high, loop 18x22 inches; colors to match cages. Price \$1.75.

Brackets 25c; single springs 15c; double springs 25c; opal glass seed cups 10c; opal bathtubs 15c; perches 10c; cuttlebone holders 10c; wire nests 15c; postage extra.

Try This New Food

CANARY MIXTURE

SPRATT'S FRUIT AND SEED



Totally unlike any other mixture prepared for regular canary feeding. Spratt's Egg, Fruit and Canary Seed Mixture offers the bird a delightful and wholesome change.

The quality of the European Canary seed, sweet summer rape and other seeds forming the blend, is unsurpassed and the addition of egg-flake and fruit makes it perfect. Its regular use (alternated occasionally with Spratt's Cod Liver Oil Cage Bird Food) must result in improved beauty, health and song. Pkt. 25c.

CAGE BIRDS WANT SPRATT'S
"SING-SONG"

An appetizing food and pick-me-up for all songsters. 15c; 2 for 25c.

Bulk Mixed Bird Seed, recleaned. Per lb 20c; 10 lb \$1.75.

Canary Seed, recleaned. Per lb 20c; 10 lb \$1.75.

Hemp, recleaned. Per lb 20c; 10 lb \$1.75.

Rape, Sweet Summer. Pkt. lb 20c; 10 lb \$1.75.

Millet, recleaned. Per lb 10c; 10 lb 90c.

Bird Gravel Per lb 5c

Cuttlebone 2 for 5c

Bird Tonic Each 15c

Spratt's Song Restorer 15c and 25c

Bird Lice Destroyer and Gun 25c

Nestling Food 15c and 25c

Coloring Food 15c

Postage Extra

SPRATT'S FOODS FOR DOGS



SPIX DOG BISCUITS

Bone-sized biscuits. The ideal daily diet for all breeds. High food value. Convenient in shape, easy for the dog to grasp. 1 lb 15c.

CHALLENGE TERRIER DOG FOOD

Granulated to about the size of peas. Excellent for all breeds. Lower in price but of full nutritional value. Can be fed dry or mixed with vegetables. 1 lb 15c.

SPRATT'S FIBO

A unique granulated food, containing a large percentage of Spratt's world-famous Meat Fibrine. It is very appetizing and highly recommended for shy and dainty feeders, as a change of diet or as a suitable food for any dog at any time. Can be given either dry or soaked. 1 lb 20c; 2 lb 35c; 6 lb \$1.00. Postage extra.

SPRATT'S OVALS

The pocket dog biscuit. A small meat fibrine dog biscuit of superior quality. Appreciated by small, medium and large breeds. A few of these diminutive dog cakes can be carried in the pocket when on a ramble with the dog. 1 lb 15c. Postage extra. Write for quantity price.

SPRATT'S COD LIVER OIL CAKES

Extremely valuable aid to convalescence of sick dogs, for old dogs and for puppies not making due progress. Dogs eat them without coaxing. 1 lb 20c; 2 lb 35c. Write for quantity prices.

SPRATT'S CHARCOAL BISCUITS

(Oval size.) These biscuits are quite easily edible. The charcoal absorbs impure gases in stomach and intestines and acts as a corrective of internal ailments, fetid breath, etc. A few charcoal biscuits given regularly each week will be found an excellent safeguard against canine ills. 1 lb 20c; 2 lb 35c.

SPRATT'S DOG REMEDIES

Sulfur Tablets.....	50c
Tablets for Constipation.....	50c
Nerve Sedative Tablets.....	50c
Dip Disinfectant, 4 ozs.....	25c
Ear Canker Ointment.....	60c
Flea Powder 15c and 25c	15c and 25c
Laxative Tablets	50c
Mange Medicine	75c
Tonic and Condition.....	50c
Tape Worm Tablets.....	50c
Worm Capsules	50c
Worm Capsules, Puppies and Toy Dogs	50c
Special Tablets, Distemper.....	75c

Postage Extra



BABY CHICKS

We offer baby chicks from one of the largest and most successful hatcheries in the Boise Valley. Chicks from this hatchery are from flocks that have been rigidly culled and blood-tested under state supervision. This hatchery is a member of the Idaho Poultry Improvement Association.

Larson strain White Leghorn chicks, from two-year-old hens that have been mated to exceptionally high egg-production cockerels. **\$9.50 per 100.**

Austra-Whites; a cross between White Leghorn hens and Australorp cockerels. This cross is proving very popular due to the size of the Australorp and their proven laying ability and the popular White Leghorn. Austra-White pullets are white with black spots and blue shanks. The males will be solid white with white shanks. They make large quick maturing fryers and will weigh when mature about the same as Barred Rocks or Rhode Island Reds. **\$10.50 per 100.** Try an order of these you will like them.

Jersey White Giants; if you are familiar with the Black Giant you can appreciate the size and quality of the White Giant. **\$11.50 per 100.**

In addition to the above we can furnish you with the same high quality in Barred Plymouth Rocks, White Rocks, Rhode Island Reds. **\$9.50 per 100.** New Hampshire Australorps, and Buff Orphington. **\$11.50 per 100.**

We guarantee 100 per cent live arrival of strong healthy chicks. You must be pleased.

We can furnish you with sexed chicks in any breeds at twice the price of day-old chicks. On these we guarantee 90 per cent pullets.

THE SURE WAY TO PROFIT SUREBUILD-SURELAY

Ten years ago Sperry started this test which finished last fall. More than 100,000 chicks were used. The results—SUREBUILD—a chick starter and grower. The first twelve weeks feed SUREBUILD, then go on SURELAY. This system of growing will give you a better pullet at less cost. Always buy SPERRY FEEDS—they are FARM-TESTED and made under Products Control.

NEST EGGS

Turned Wood Nest Eggs with egg shell enamel finish in two colors, white and buff. Natural in appearance. Will not break, can be easily washed, and will last indefinitely. Price, 5c each; 45c per dozen, postage extra.

SODIUM FLUORIDE

Sodium Fluoride is made especially for poultry and carries the government's direction for applying. It is safe, easy to use, inexpensive and absolutely does the work quickly and effectively. $\frac{1}{2}$ lb 25c; 1 lb 40c. Not mailable.

THE GIZZARD CAPSULE

This insoluble capsule is a triple combination worm medicine—for Round, Tape and Pin Worms—carries clear through to the gizzard, where the capsule is broken up. This method prevents absorption of strong drugs by the mucous membrane of throat, crop and stomach; prevents diluting and weakening of the medicine by mixing with the crop contents. Five times as effective as where worm remedies are given in food or drink.

Adult size for chickens or turkeys half grown or larger: 50-capsule pkg. 75c; 100 pkg. \$1.35; 500 pkg. \$5.50; 1000 pkg. \$10.

LAYING MASH

How to Get More Eggs

Hens fed egg mash will retain their body weight and vitality. They will lay more and larger eggs. The kind of protein used in mash has a direct influence on the size and number of eggs a hen will lay. It has been proven by actual tests that all animal protein in a mash will cause the hens to lay larger eggs and more of them than a mash containing a large amount of vegetable protein. Egg mash does not contain any high vegetable protein. The protein is derived from meat scraps and milk.

The digestibility of a mash is what counts in egg production. Meat scraps and milk are much easier for a hen to digest and assimilate than soy bean and linseed oil meal. The protein in egg mash is 17 per cent digestible. One to 2 per cent higher than the average mash. You are paying on the average of 5c per pound for protein in your mash. Why pay for more indigestible protein than is absolutely necessary? Remember you get better returns from a pound of animal protein than you do from a pound of vegetable protein. Why pay as much for one as you do the other?

Write for quantity prices.

Laying Mash, protein 18%, fat 4%, fibre 8%. 100 lb \$2.50.

MEAT SCRAP

Very rich in protein. It should be mixed with the soft food. No hides or tankage in our meat scrap, but, as the name implies, meat, cooked, dried and ground, unexcelled for egg production. Write for price. 100 lb \$3.75.

BLOOD MEAL

The most highly concentrated egg producers on the market. To be fed in soft food. Unexcelled for forcing growth or as an egg food.

GROWING MASH

This is the important time in the life of your pullets and the care and feed they are given for the next three months will determine to a great extent when they will lay, how much, and how long.

When chicks are three months old start feeding Growing Mash. It contains some meat scraps as well as other important elements for the development of the egg producing organs. Feed this mash until chicks are six months old. Continues growth without interruption and makes early, heavy, long producing layers of your birds.

There is no substitute for EGGS and as the population increases EGGS steadily increase in importance. Feed Growing Mash and your profits will increase from laying, paying birds. Write for prices. 100 lb \$3.00.

CHICK SCRATCH FOOD

For chicks two weeks old and over. Like our other feeds, this mixture embraces a fine combination of seeds and grains. It gives the chicks quick growth and tends to keep them in good health. To properly develop the chicks, either for the market or to become producers of eggs, they must be feed such food as will promote growth quickly and uniformly. 100 lb \$2.75.

STARTING MASH

The manufacturer constructs his building with but one view in mind, that of making a profit for himself. He builds for durability and efficiency, so we must build our Egg Factory. First we must have a foundation for our flock. Choose a good laying strain from your favorite breed. A good hen costs no more to feed than a poor one but she will produce a profit, while the poor one may mean a loss. We must choose our feeds for the growing chick just as carefully as we choose materials for any factory. Nature provides food for the chick for the first 72 hours. After that she depends on us for her feed, unless she is with the mother hen.

Any good scratch will give very satisfactory results. The mash is more important. You will find in our Chick Starter a mash that is cheap only in price. The formula is simple, but has produced wonderful results. It is a perfectly balanced ration for the baby chick, containing all the ingredients necessary for the growth of bone, muscle and feathers. A mash formulated after years of practical experience, to eliminate leg weakness, toe picking or bowel trouble. Tests show less than 2 per cent mortality. Write for prices. 100 lb \$3.25.

FISH MEAL

A fine-ground, pure, sweet fish meal containing protein—feed as you would meat meal; a rich, wholesome food. 100 lb \$3.75.

CHARCOAL

Prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion. Price, 50-lb sack \$1.60.

CRYSTAL GRIT

Two sizes, chick and hen size. We send hen size unless otherwise ordered. Price, \$1.00 per cwt.

EPSOM SALTS

Four poultry and stock. 1 lb 10c; 3 lb 25c; 25 lb \$2.00.

DRIED BUTTERMILK AND SKIM MILK

The pure solid content of the liquid buttermilk, with only the water taken out and nothing else added. It contains all the food elements of the liquid buttermilk, but the process of drying puts it in a convenient form that will keep indefinitely and can be hauled long distances with only moderate freight charges. Can be used just when needed and with no waste from spoilage or shipping. 100 lb \$9.00.

OLD PROCESS OIL MEAL

Aids digestion and assimilation of food. As it contains 33 to 36 per cent of protein, it is combined with brans and other food so as to make a balanced ration. Improves the health, vigor and appearance of poultry. Write for prices. 100 lb \$3.25.

OYSTER SHELLS, CRUSHED

Clean stock, free from dust and waste. Two sizes, coarse and fine. 100 lb \$1.25.

COD LIVER OIL

Pure Norwegian Cod Liver Oil. Without doubt the greatest discovery of the past few years for increasing egg production, overcoming soft-shelled eggs and preventing leg weakness. \$1.25 Gal.

TOBACCO POWDER

It has been found that finely powdered tobacco is a most effective remedy against round worms in poultry. It is uniform in strength and texture and contains not less than one per cent and not more than one and one-half per cent actual nicotine. 15c lb.; 5 lb 50c.



Put
KORUM

In the Drinking Water for
Chicks and Fowls

We are so enthusiastic about KORUM and the results it is producing for poultry raisers that we find it difficult to find words strong enough to tell you what we believe it will do for your chicks and matured birds.

KORUM is simple and easy to use. Simply place a small amount of it in the drinking water as per the instructions which are sent with every bottle. Users have found that KORUM, because of its properties, acts as a mild acting laxative and astringent that aids in keeping the fowls in prime condition. KORUM is especially recommended to be used one or two days before and a few days after worming fowls.

One-half pint bottle 65c; 1 pint bottle \$1.00; 1 quart bottle \$1.75; one-half gal. bottle \$3.00; 1 gal. bottle \$5.00.

Keep Lice Down To Keep Poultry Profits Up



REVENGE LICE DESTROYER is a product that can mean much to the comfort and well-being of your poultry flock. REVENGE can be used in the nests, on roosts, in dust boxes (where fowls wallow), or direct on the fowls. REVENGE is a sticky powder. It stays in the feathers and does not shake out as it would if it were a dry, dusty powder.

You can use REVENGE LICE DESTROYER with the absolute certainty that it will kill all kinds of lice that live on poultry or animals.

1 lb can 65c; 3 lb can \$1.00.

*See Us About Your
Poultry Problems*



RUSSELL'S WORM CONTROL PROGRAM

Worms in poultry are the direct cause of more loss in the poultry business than any other ailment. Worms undermine health; they sap vitality; retard growth; and waste feed, which all in turn bring about almost certain disastrous disease and loss of profits.

WORMR Tablets expel large round worms, and desegment large tape worms, yet do not sicken fowls, retard development of young stock or destroy the egg-producing ability of pullets or hens. WORMR Tablets act promptly, efficiently, safely and leave the flock in excellent condition.

100 WormR Tablets, Hen Size \$1.00; 1000 WormR Tablets, Hen size \$9.00; 200 WormR Tablets, Chick size \$1.00; 2000 WormR Tablets, chick size \$9.00.



WORMR POWDER

WormR Powder is very easy and economical to use. WormR Powder thoroughly mixed in dry mash or any fine ground feed, or used in moist mash will expel large round worms and desegment large tape worms. The best time to begin using WormR Powder is before fowls get badly infested, and if you will give a treatment of WormR Powder every 30 or 60 days you will find it an aid in controlling worms, and a safeguard to poultry profits.

(Flock Treatment, enough for 80 hens) 65c; Flock treatment, enough for 160 hens) \$1.00.

COCCIDIOSIS

When worming birds that have coccidiosis, do not use WormR Tablets, but use the WormR Powder as follows: Mix thoroughly a \$1.00 package of Russell's WormR Powder with 100 pounds of feed (preferably mash or fine ground feed) and feed to the following number of chicks:

500 Chicks—2 to 4 weeks old.
400 Chicks—4 to 7 weeks old.
300 Chicks—7 to 10 weeks old.
200 Chicks—10 to 13 weeks old.
150 Chicks—13 to 16 weeks old.

You'll Find Many Uses for RUSSELL'S SPRAYR

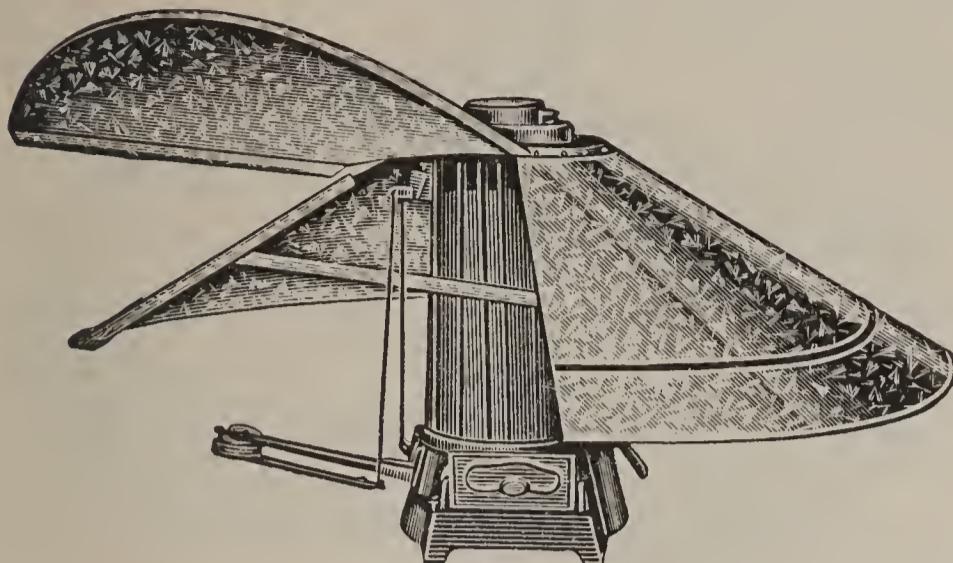


Russell's SPRAYR is a soothing and cleansing wash for nostrils, mouth, eyes and throat of poultry. It contains such pleasant relief agents as Oil of Eucalyptus, Camphor, Menthol, Creosote and Pine Oil.

Any one or all of these ingredients tend to make breathing free and easy for humans suffering from catarrh, bronchial ailments and colds. And if such relief is enjoyed by humans with these agents, why not use it for poultry under similar conditions? Is it not a logical thing to use?

Four ozs. 65c; 8 ozs. \$1.00;
16 ozs. \$1.75.

OAKES "RED TOP" COAL BROODERS



- Revolving Canopy
- One Section Hinged
- Dual Draft Control
- No Complicated Baffle Plates
- Burns Hard or Soft Coal
- Big Refueling Door, Hinged
- Five-inch Flue Pipe
- Rocker Type Grates, 10½ in. Diameter

REVOLVING CANOPY

Canopy of heavy gauge galvanized steel in four sections with one section hinged. The canopy hangs securely from a flange on top of the stove and can be swung around to any position for refueling, removing the ashes, adjusting thermostat, or giving any other needed attention. Very sturdy and substantial.

RED TOP STOVES produce an abundance of controlled heat from either hard or soft coal, insuring chick comfort and proper brooding conditions. Specially designed heavy grey iron body has sloping sides to prevent bridging or wedging of fuel. Extra large fuel pot gives ample reserve capacity. The five-inch flue pipe insures a good draft under all conditions of operation. Big refueling door; pour in coal from ordinary coal scuttle. Two Sturdy Boy Brass Water Thermostats control the dual draft.

REAL LOW PRICES

Catalog No.....	RT-48	X54
Diameter Canopy.....	48 in.	54 in.
Coal Capacity.....	40 lbs.	40 lbs.
Grate Diameter.....	10½ in.	9¾ in.
Stove Height.....	23 in.	30 in.
Chick Capacity.....	500	750
Shipping Weight.....	95 lbs.	110 lbs.
Price, each.....	\$14.00	\$19.50

OAKES ACORN OIL BROODER

Uses less fuel—makes chick raising easy

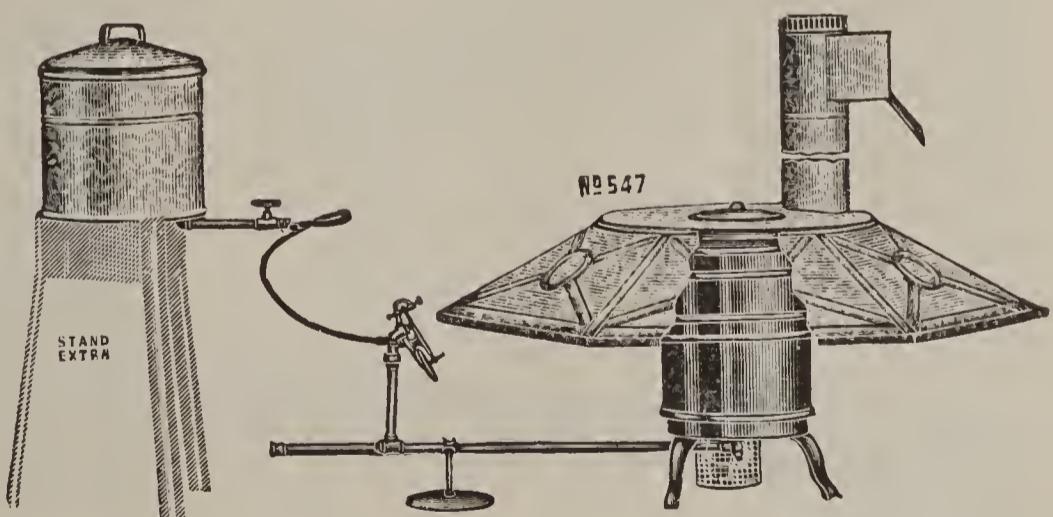
Special deflector top catches all the heat—forces it to the canopy wings and down to floor around the chicks where needed. No heat is wasted by rising to ceiling of brooder house. Baby chicks are brooded on the floor—not on the rafters. Through the two inch clearance between top of drum and deflector, air is continually circulating and heat is evenly distributed throughout the hover area. Few stoves have this outstanding feature. It broods more chicks with less fuel. Solves the "bareback" chick problem. ACORN BROODERS prevent heat waste.

BIG HEAT DRUM

Gets all the heat out of the flame. More than 7-ft. flame travel through the baffled drum before hot air and gases can escape up the 5 foot chimney. Drum is 22¾ x 7¾ inches. Natural blue steel finish.

AUTOMATIC HEAT CONTROL

Maintains even temperature in brooder house regardless of outside weather conditions, once regulator is adjusted. Controls flow of oil to burner.



Catalogue No.....	547	557
Canopy, side to side.....	42 in.	52 in.
Chick capacity.....	500	750
Shipping weight.....	75 lbs.	85 lbs.
Price, each.....	\$19.20	\$20.50
No. 361—Fuel tank stand—extra—one in bundle....		\$1.00

TYCOS INCUBATION ZONE THERMOMETER

A most popular style instrument. Made with mercury-filled tubes only. Can be used with or without stand.

Price, each \$1.00

BROODER THERMOMETER

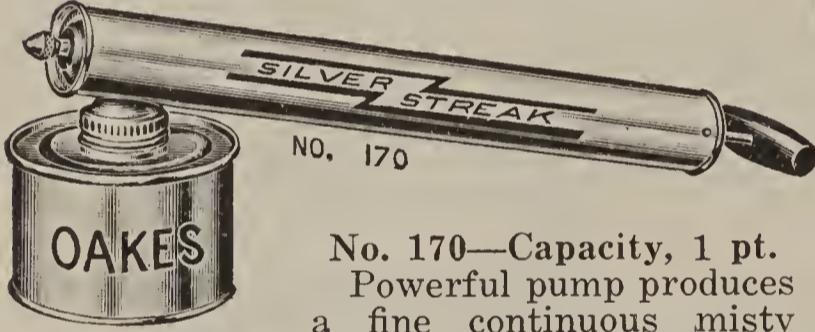
Hangs inside of brooder. Price, each, 65c. Add 5c for postage.

No. 5792—TYCOS BROODER THERMOMETER

For insertion through hole in top or side of brooder. The scale is on the outside in full view—the bulb inside in actual brooder temperature.

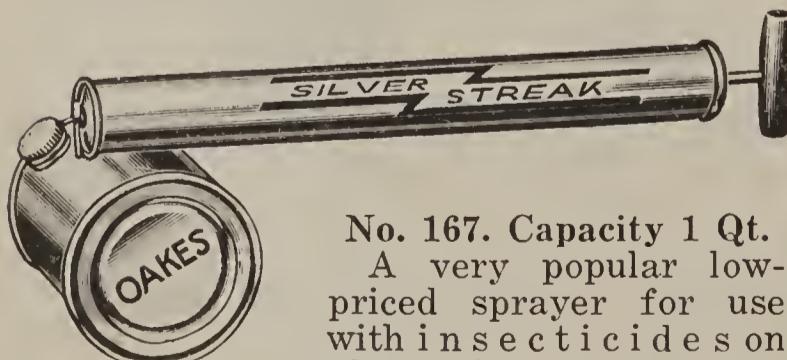
Price, each, 75c. Add 5c for postage.

OAKES CONTINUOUS SPRAYER



No. 170—Capacity, 1 pt.

Powerful pump produces a fine continuous misty spray. Operates easily without spitting or dripping at end of pump stroke. Tank has large filler cap for easy filling. Pump is placed at an angle so tank always set flat. Will not tip over. Unexcelled for fly spray and various insecticides for home and garden. Siphon feed tube and brass nozzle are removable for easy cleaning. Tank is 4 inches in diameter, 2 5/8 inches deep. Capacity 1 pint. Each, 65c.



No. 167. Capacity 1 Qt.

A very popular low-priced sprayer for use with insecticides on plants, flowers and other household uses. Sturdy and substantial construction. Produces a real misty spray. Will discharge 2 ounces of liquid per minute. Pump barrel beautifully lithographed. Each, 40c.

OAKES BOTTLE SPRAYER



No. 164—Capacity 5 1/2 Ounces

Especially designed for household uses. Detachable glass tank has wide neck for easy filling. Bigger filler cap makes a stronger sprayer. Convenient for spraying clothes wardrobes, fly sprays, potted plants or disinfectants. Bottle capacity 5 1/2 ozs. Each, 20c.

EGG SCALES

DOUBLE DIAL

Accurate, dependable, fast. Weight per dozen and individual egg registered. Bearing pins brass. Pointer counter balance, egg cup, chromium plated. Attractively finished in red duco. Adjustable stop can be set at any point to grade eggs. Dial black, figures in white. Easy to read. Packed one in carton.

No. 20S—Egg Scale, wt. 2 1/2 lbs., each \$1.50

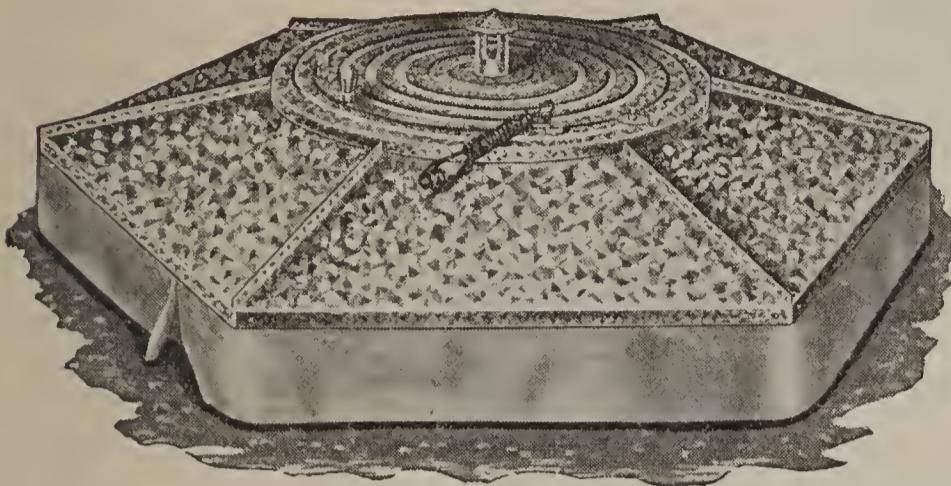
OAKES WAFER THERMOSTATS



Dependable incubator and brooder wafers are priceless. Oakes Sturdy Boy Brass Wafer Thermostats respond equally to all temperature changes. Made with a variety of connections for any brooder stove or incubator. We carry in stock the most popular connections. Each packed in handy individual carton indicating stoves or incubators on which can be used. Each, 25c and 50c.

ADVANCE ELECTRIC BROODERS

Thousands in use. No fire hazard. No dangerous fumes. Dependable, economic.



READY TO PLUG IN

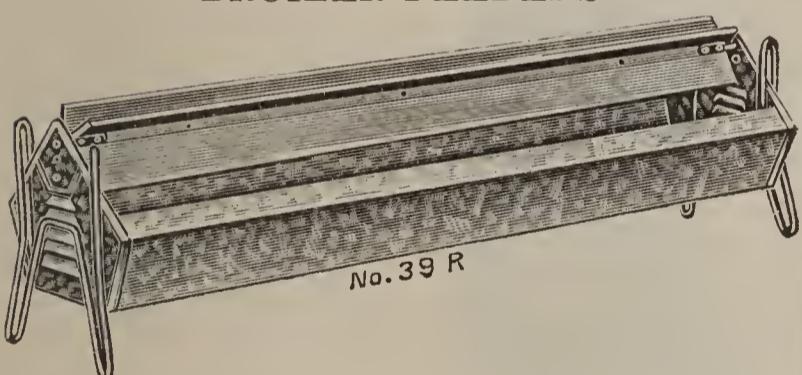
Regularly furnished for operation on 110-120 volt alternating current. Rubber covered drop cord. Heat control is automatic. Listed under Underwriters' Laboratories and carries full approval.

ADJUSTABLE VENTILATOR

Adjustable ventilator tube keeps air fresh and clean under canopy. Canvas curtains to retain the heat. Ideal for late brooding of chicks. On current rates up to 5 cents per kilowatt are as economical as oil or coal brooders. They brood chicks nature's way. Do not heat the entire house any more than a hen heats a brood crop. Shipped canopy K.D. Rest complete with drop cord and thermometer ready to plug in.

Catalogue No.....	520	521	522
Canopy Size.....	28 in.	48 in.	54 in.
Chick Capacity.....	100	150	330
Wattage Heater.....	2.50	4.50	5.50
Shipping Weight.....	30 lbs.	35 lbs.	40 lbs.
Price, each.....	\$8.25	\$10.00	\$11.25

BROILER FEEDERS

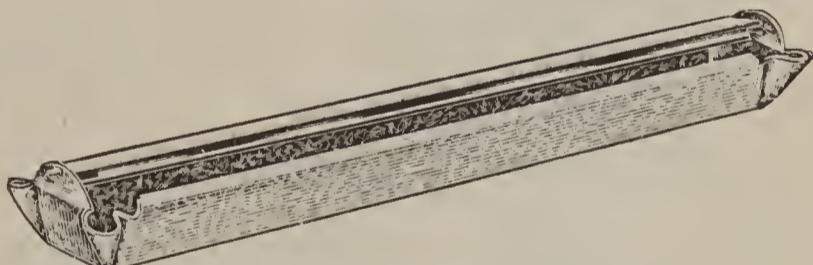


With revolving reel.
Four-blade meal reel—adjustable.
Adjustable stand.
Large feed capacity.
Two lengths.

Trough made of 26 in. galvanized steel. Adjustable stand is made of heavy spring wire which adjusts up and down and is held in any one place by friction against corrugations in end of trough. Width of trough at feeding edge 6 $\frac{3}{4}$ inches. A wonderful feeder for growing chicks or turkey poult.

No. 3942R—Broiler Trough, 42 in. long; each, \$1.20.

NEW "WINNER" CHICK TROUGH



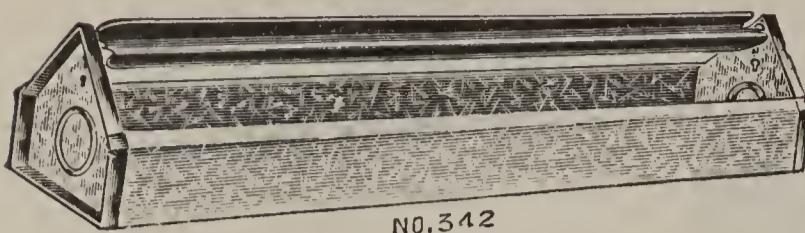
One-piece die stamped.

Trough of heavy gauge galvanized steel. Die-stamped. Holds either food or water. Flange along edge is folded and smooth. Prevents feed waste. Metal "Z" reel revolves. Trough is 1 $\frac{1}{2}$ in. deep, 2 $\frac{1}{2}$ in. wide at bottom and 3 $\frac{1}{2}$ in. wide at flange upturn. Three popular lengths. A BIG VALUE.

No. 104, 10 in. long.....	Each 15c
No. 105A, 18 in. long.....	Each 20c
No. 106A, 24 in. long.....	Each 25c

WE ARE HEADQUARTERS FOR
POULTRY FEEDS AND SUPPLIES

SQUARE BOTTOM TROUGH
With Metal "Z" Reel

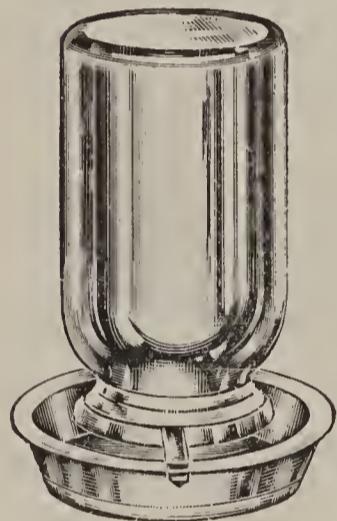


Revolving metal reel prevents chicks roosting or getting into trough. Reel adjustable to three positions. Will feed day-old chicks up to eight weeks old. An all purpose feeder at a low price, trough of 26-gauge metal is 4 inches wide and 2 inches deep. Turned flanges along through edge are smooth. Prevents feed waste. Die-stamped inset ends strengthen trough.

No. 343, 3 ft. long..... Each 65c
No. 344, 4 ft. long..... Each 75c

BABY CHICK WATERERS
Glass Pan

For Milk, Medicine or Water

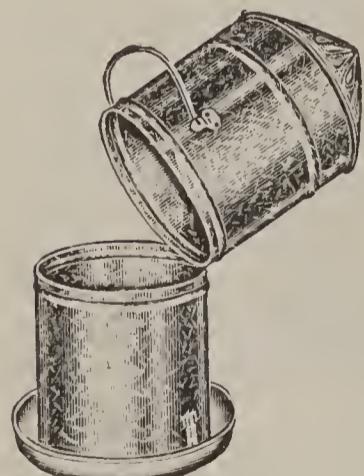


Heavy saucer, metal clip screws on neck of any size mason jar. Clip snaps over edge of saucer jar and clips are quickly detached from pan for easy cleaning or filling.

Illustration shows glass pan assembly with quart mason jar. Jars not furnished.

Each 15c
Per dozen \$1.25

E-Z FILL FOUNTS

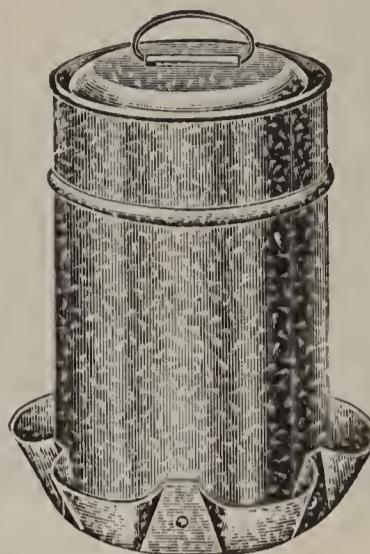


Double wall fountain. Rust proof cone top. Outer can may be used as pail for filling. Inner tank has cross handle for carrying. Brass spring valve is released when outer can slides into place. Water level in pan controlled by vacuum. Used for hens or baby chicks. Winter and summer types.

SUMMER TYPE—NO HEATER

Catalogue No..... 31, 32-B
Capacity..... 3 gal., 5 gal.
Shipping weight..... 10 lbs., 12 lbs.
Each..... \$2.00, \$2.50

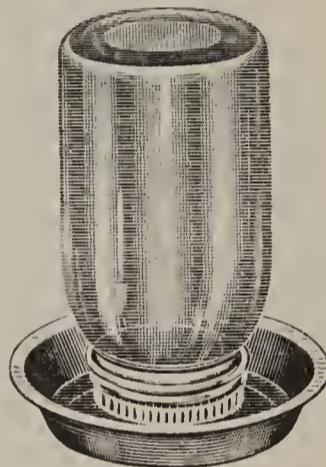
SNAP-ON CHICK WATERERS
Has Six Drinking Cups



Inexpensive but good. A popular seller. Can hold to die stamped bottom pan by friction. Invert to fill. Handle for carrying. Cups in drinking pan just right size for chicks. They can't get in and drown. 2 gal. size illustrated.

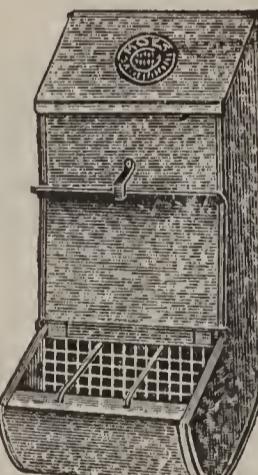
Catalogue No..... 100B, 100C
Capacity..... 1 gal., 2 gal.
Each 60c, 90c

SCREW CAP TYPE
Enameled Finish



Heavy, die-stamped pan with screw cap to fit any mason jar. Cap welded. Attractively finished in blue air-dry enamel.

Each 10c
Per dozen \$1.00



GRIT BOXES

Economical and practical for feeding grit, shells, etc.

No. 9, three compartments, each..... 75c

COLORED LEG BANDS



Best quality. Made of celluloid in six sizes and ten colors—white, black, dark blue, light blue, red, pink, garnet, green, yellow and purple.

12 Bands.....	\$.15
25 Bands.....	.25
50 Bands.....	.40
100 Bands.....	.65
500 Bands.....	3.00
1000 Bands.....	5.75

FARM TESTING and PRODUCTS CONTROL

Insure you greater profits with these Sperry feeds

Years of research and careful testing are behind these feeds. Each one of them has been found, through actual use, to produce the greatest profit over feed cost. Use them with the knowledge that you are getting the most for your money.



Be sure to feed your chicks *Farm Tested SUREBUILD* for the first 12 weeks. Then change to *Farm Tested SURELAY*. No need of blending feeds.

Remember this: It requires more effort for the hen to convert poor feed than it does for her to use good food—and the results and cost will not be the same. Sperry *Farm Tested* feeds may cost a trifle more at the outset, but they always pay you bigger profits in egg production in the long run.

"Feed SURELAY for greater profits over feed cost."

Use Sperry Products for Cattle, Poultry, Rabbits

Proved the best turkey feed from hatching to maturity. Matures birds in 24 weeks, saving 4 weeks feeding. Produces more prime birds. Saves on feed bills.

SUREGOBBLE for adult turkeys and breeders. Maintains body health while producing heavy lay. Get greater hatchability from your birds with SUREGOBBLE.



Proven in actual commercial use to produce a pound of milk and a pound of butterfat at the lowest possible cost, while maintaining healthy body condition. Cows milk heavier and longer.



SUREBUILD—The new tested method for feeding chicks, a combined starting and growing mash. Feed for the first 12 weeks, then feed egg mash (SURELAY) after that until maturity. Write for literature and prices.

SUREBROILER—The specialized grower of broilers, fryers, roasters or capons must produce better quality than is found in the average flock if he is to realize the "top prices" essential to maximum profits. SUREBROILER is the feed answer to this problem.

TO OBTAIN FREE BOOKS . . . MAIL THIS COUPON TODAY

Sperry Flour Co. Commercial Feed Department
San Francisco, California

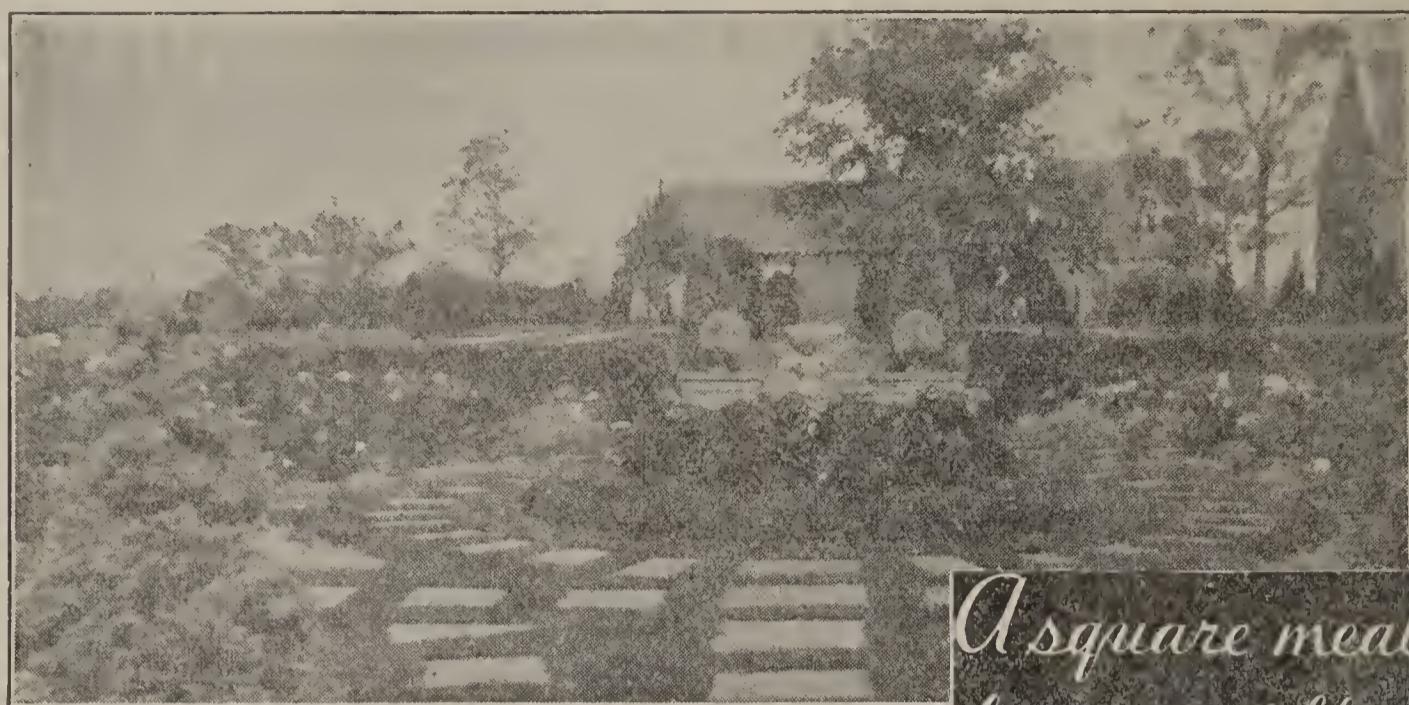
Please send me without charge, the booklets checked below:

<input type="checkbox"/> Milk and Money	<input type="checkbox"/> The Sure Way to Raise Turkeys
<input type="checkbox"/> Less Disease—More Money	<input type="checkbox"/> Raising Rabbits for Profit

Name.....

Address.....

City..... State.....



VIGORO

Complete plant food

100 lb.	\$4.00	10 lb.	.85
50 lb.	2.50	5 lb.	.50
25 lb.	1.50	Pkt.	.10

*A square meal for
lawns and flowers
is 4 lbs. of Vigoro
per 100 sq. ft.*

REFERENCE TABLES

Quantity of Seeds to produce a given number of plants and to sow an acre.

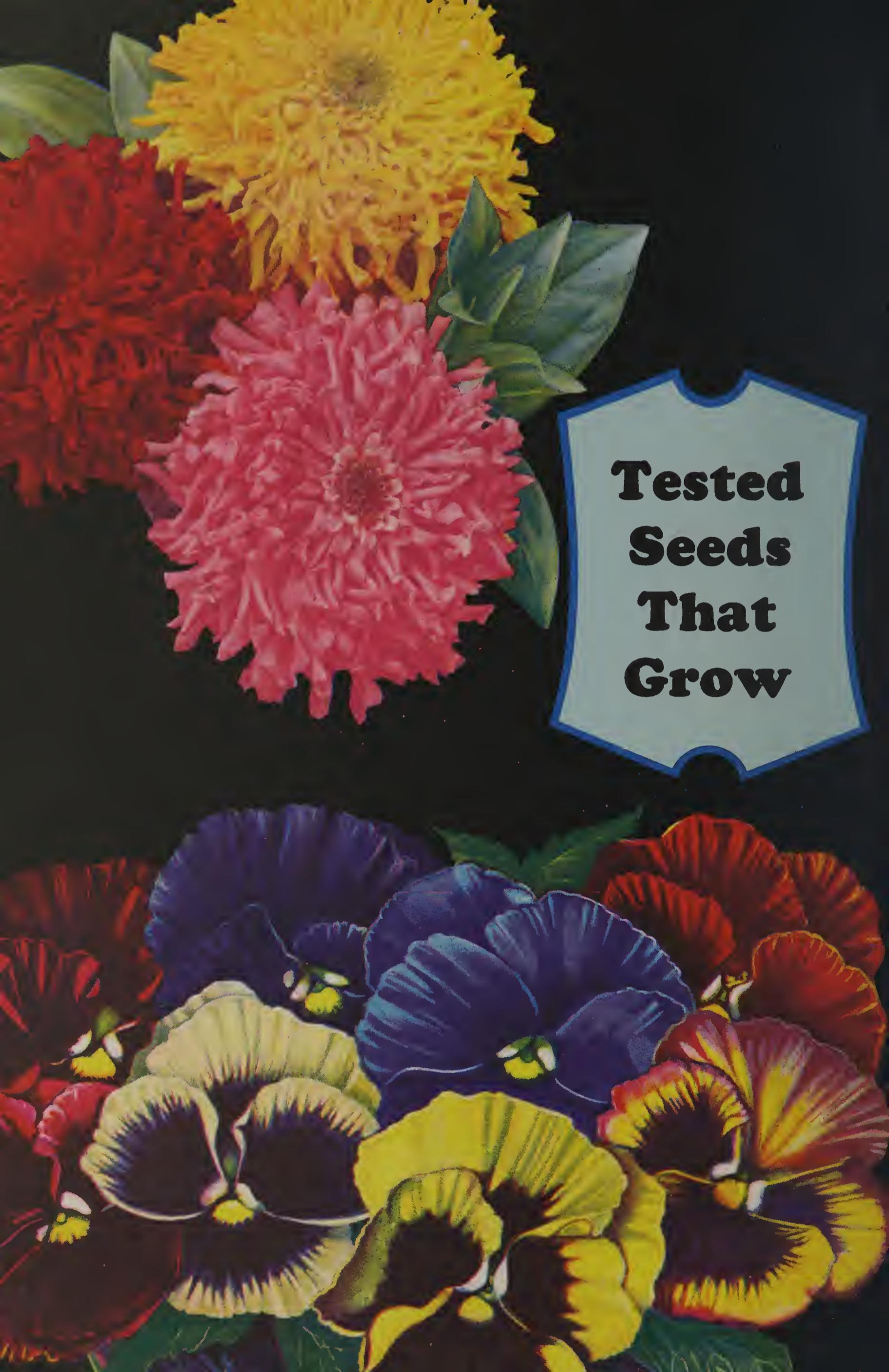
Quantity per Acre	
Artichoke, 1 oz. to 500 plants	.6 oz.
Artichokes—White French	8 bu.
Asparagus Roots	7500
Barley	2 to 2½ bu.
Beans, dwarf, 1 lb. to 100 ft. of drill	1 bu.
Pole, 1 lb. to 100 hills	½ bu.
Beet, Garden, 1 oz. to 100 ft. of drill	6 to 7 lbs.
Mangel, 1 oz. to 100 ft. of drill	5 lbs.
Broccoli, 1 oz. to 2,000 plants	4 oz.
Brussell Sprouts, 1 oz. to 2,000 plants	4 oz.
Broom Corn in drills	15 lbs.
Buckwheat	½ to 1 bu.
Cabbage, 1 oz. to 2,000 plants	8 oz.
Carrott, ½ oz. to 100 ft. drill	3 lbs.
Cauliflower, 1 oz. to 2,000 plants	3 to 4 oz.
Celery, 1 oz. to 5,000 plants	4 oz.
Cheat	2 bu.
Chicory	4 bu.
Clover, Alsike and White	8 to 10 lbs.
Alfalfa	15 to 20 lbs.
Crimson Arefoil	10 to 15 lbs.
Collards, 1 oz. to 2,000 plants	4 oz.
Corn, Pop (shelled)	8 to 10 lbs.
Sweet or Field, hills	12 to 15 lbs.
For soiling drills	3 bu.
Cress ¾ oz. to 100 ft. drill	1 lb.
Cucumber, 1 oz. to 100 hills	2 to 3 lbs.
Egg Plant, 1 oz. to 2,000 plants	4 oz.
Emmer	100 lbs.
Endive, ¾ oz. to 100 ft. drill	4 lbs.
Flax, broadcast	¾ bu.
Grass—	
Kentucky Blue, for pasture	1 to 2 bu.
Kentucky Blue, for lawns	100 lbs.
Meadow Fescue	1 bu.
Mixed Lawn	5 to 6 bu.
Red Top, Chaff	1 to 2 bu.
Red Top, solid seed	10 to 15 lbs.

Grass—Continued		Quantity per Acre
Timothy		10 to 15 lbs.
Orchard, Perennial Rye		1 to 2 bu.
Wood Meadow		1 bu.
Horseradish Roots		15,000 to 25,000
Kale, 1 oz. to 2,000 plants		4 oz.
Kaffir Corn, in drills		6 to 10 lbs.
Kohl Rabi, 1 oz. to 2,000 plants		4 oz.
Leek, 1 oz. to 100 ft. of drill		4 lbs.
Lettuce, 1 oz. to 150 ft. of drill		3 lbs.
Mushroom Spawn		1 brick to 10 sq. ft.
Millet—for Seed		20 lbs.
For Hay		20 lbs.
Melon, Musk, 2 oz. to 100 hills		2 to 3 lbs.
Water, 4 oz. to 100 hills		3 to 4 lbs.
Oats		2 to 3 bu.
Okra, 1 oz. to 100 ft. of drill		8 lbs.
Onion Seed, for sets		60 to 85 lbs.
1 oz. to 150 ft. drill		3 to 4 lbs.
Onion Sets, 1 qt. to 40 ft. drill		8 bu.
Parsnips, 1 oz. to 150 ft. drill		3 lbs.
Parsley, 1 oz. to 150 ft. drill		3 lbs.
Peas, Field		2 bu.
Garden, 1 lb. to 100 ft. drill		1 to 2 bu.
Pepper, 1 oz. to 1,000 plants		2 lbs.
Potatoes		10 bu.
Pumpkin, ½ lb. to 100 hills		3 to 5 lbs.
Radish, 1 oz. to 100 ft. drill		10 lbs.
Rape		3 to 5 lbs.
Rye		1½ to 2 bu.
Salsify, 1 oz. to 100 ft. drill		6 to 8 lbs.
Spinach, 1 oz. to 100 ft. drill		8 to 10 lbs.
Sugar Cane, in drills		10 lbs.
Sunflower		8 lbs.
Squash, Summer, 4 oz. to 100 hills		3 lbs.
Winter, 8 oz. to 100 hills		4 lbs.
Tomato, 1 oz. to 2,000 plants		4 oz.
Tobacco, 1 oz. to 4,000 plants		3 oz.
Turnip, 1 oz. to 150 ft. drill		2 to 3 lbs.
Vetches		1½ to 2 bu.
With Grain		1 bu.
Wheat		1½ to 2 bu.

WEIGHTS OF VARIOUS ARTICLES	
Per Bushel	
Artichokes	60 lbs.
Barley	48 lbs.
Beans	60 lbs.
Buckwheat	48 lbs.
Blue Grass—	
Kentucky	14 lbs.
English	24 lbs.
Canary Seed	60 lbs.
Cheat	34 lbs.
Clover Seed	60 lbs.
Corn, Shelled	56 lbs.
Charcoal	22 lbs.
Emmer	40 lbs.
Flax Seed	56 lbs.
Grass Seeds (unless otherwise stated)	14 lbs.
Hemp Seed	44 lbs.
Hungarian Millet	48 lbs.
Lawn Grass	20 lbs.
Meadow Fescue	24 lbs.
Millet	50 lbs.
Oats	32 lbs.
Onion Sets	32 lbs.
Orchard Grass	14 lbs.
Peach Pits	48 lbs.
Peas, Smooth	60 lbs.
Peas, Wrinkled	50 lbs.
Perennial Rye	20 lbs.
Potatoes	60 lbs.
Rape	60 lbs.
Rye	56 lbs.
Red Top	14 lbs.
Red Top, Solid Seed	42 lbs.
Timothy	45 lbs.
Vetches	70 lbs.
Wheat	60 lbs.

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**Tested
Seeds
That
Grow**